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# <!DOCTYPE html>

<html>

<head>

 <meta charset="utf-8">

 <meta name="viewport" content="width=device-width, initial-scale=1">

 <title>Activity Log</title>

 <link rel="stylesheet" href="jquery.mobile-1.4.0.min.css" />

 <script src="jquery-1.10.2.min.js"></script>

 <script src="jquery.mobile-1.4.0.min.js"></script>

 <script type="text/javascript">

 var options = {};

 var reportOffSet = 0;

 $(document).on("pagebeforeshow", "#options-page", function() {

 $("#timer\_interval-opt").val(options.timer\_interval).slider("refresh");

 $("#record\_threshold-opt").val(options.record\_threshold).slider("refresh");

 $("#default\_email-opt").val(options.default\_email);

 $("#field\_separator-opt").val(options.field\_separator);

 $("#report\_weekstart-opt").val(options.report\_weekstart).selectmenu("refresh");

 $("#report\_interval-opt").val(options.report\_interval).selectmenu("refresh");

 $("#report\_round-opt").val(options.report\_round).selectmenu("refresh");

 });

 $(document).on("pagebeforeshow", "#main-page", function() {

 $("#main-page div:jqmData(role='content') ul").empty();

 doDataLink('LOD:main');

 });

 $(document).on("pagebeforeshow", "#manage-page", function() {

 $("#manage-page div:jqmData(role='content') fieldset:jqmData(role='controlgroup')").empty();

 doDataLink('LOD:mgmt');

 });

 $(document).on("pagebeforeshow", "#report-page", function() { doDataLink('RPD:'+reportOffSet); });

 function doDataLink(data) { Android.dataLink(data); }

 function doSetOptions(opts) {

 options = opts;

 }

##  function doSaveOptions() {

 options.timer\_interval = $("#timer\_interval-opt").val();

 options.record\_threshold = $("#record\_threshold-opt").val();

 options.default\_email = $("#default\_email-opt").val();

 options.field\_separator = $("#field\_separator-opt").val();

 options.report\_weekstart = $("#report\_weekstart-opt").val();

 options.report\_interval = $("#report\_interval-opt").val();

 options.report\_round = $("#report\_round-opt").val();

 opts = "OPT:"

 for(var name in options) {

 var value = options[name];

 opts += name + "=" + value + "\n";

 }

 opts = opts.substring(0, opts.length-1);

 doDataLink(opts);

 doDataLink("POP:Options saved");

 }

##  function doUpdateStatus(id, action) {

 var status = $("div:jqmData(role='footer') h4");

 var item = $("#item-" + id);

 var anchor = $("#item-" + id + " a:first-of-type");

 var act\_name = anchor.text();

 if (id == "") {

 status.html("Not recording");

 } else if (action == "-") {

 status.html("Not recording");

 anchor.html(act\_name);

 } else {

 status.html('Recording <a href="javascript:doDataLink(\'RUN:' + id + '\')">' + act\_name + '</a>');

 anchor.html('<em style="color:#00f">' + act\_name + '</em>');

 }

 $("div:jqmData(role='footer')").toolbar("refresh");

 }

 function doAddActivity(page, id, name) {

 var markup;

 if (page == 'main') {

 markup = '<li id="item-' + id + '"><a href="javascript:doDataLink(\'TAP:' + id + '\')">' + name + '</a>\n'

 + '<a href="javascript:doEditActivity(\'' + id + '\')">Edit activity</a></li>\n';

 $("#main-page div:jqmData(role='content') ul").append(markup).listview('refresh');

 } else {

 markup = '<input name="check-' + id + '" id="check-' + id + '" type="checkbox" value="' + name + '">\n'

 +'<label for="check-' + id + '">' + name + '</label>\n';

 $("#manage-page div:jqmData(role='content') fieldset:jqmData(role='controlgroup')").append(markup).enhanceWithin();

 }

 }

##  function doEditActivity(id) {

 $("#activity-name").val($("#item-" + id + " a:first-of-type").text());

 $("#activity-item-id").val(id);

 $("#edit-activity").popup("open");

 }

##  function doSaveActivity() {

 var orig = $("#activity-item-id").val();

 var name = $("#activity-name").val();

 $("#item-" + orig + " a:first-of-type").html(name);

 $("#edit-activity").popup("close");

 doDataLink("SAV:" + orig + "\n" + name);

 }

##  function actOnSelection(datalink) {

 $("#confirm-action-selected").popup("close");

 $("#manage-page div:jqmData(role='content') fieldset:jqmData(role='controlgroup')").empty();

 doDataLink(datalink);

 }

##  function getSelectedNames(selection) {

 var count = 0;

 $("#manage-page :checkbox:checked").each(function() {

 if (count > 0) {

 selection.txt += ", ";

 selection.ids += ",";

 }

 selection.txt += $(this).val();

 selection.ids += $(this).attr('id').replace('check-', '');

 count++;

 });

 return count;

 }

##  function doOnSelected(action) {

 var selection = {txt:'', ids:''};

 var count = getSelectedNames(selection);

 var limit = (action == 'Merge') ? 2 : 1;

 var dlink = (action == 'Merge') ? 'SMG:' : 'SDL:';

 if (count < limit) {

 var x = (limit == 1) ? 'y' : 'ies';

 selection.txt = '<em>Please select at least ' + limit + ' activit' + x + '.</em>';

 $("#confirm-action-selected a:first-of-type").addClass('ui-disabled');

 } else {

 $("#confirm-action-selected a:first-of-type").removeClass('ui-disabled');

 $("#confirm-action-selected a:first-of-type").attr('href', "javascript:actOnSelection('" + dlink + selection.ids + "')");

 }

 $("#confirm-action-selected p:first-of-type").html(selection.txt);

 $("#confirm-action-selected h3").html(action + " selected activities");

 $("#confirm-action-selected").popup("open");

 }

##  function actOnAllData(datalink) {

 $("#confirm-action-all").popup("close");

 doDataLink(datalink);

 }

##  function doOnAllData(action) {

 $("#confirm-action-all h3").html(action + " all log records");

 $("#confirm-action-all a:first-of-type").attr('href', "javascript:actOnAllData('ALL:" + action + "')");

 $("#confirm-action-all").popup("open");

 }

##  function doReportData(dates, daily, daydo) {

 var markup = '';

 var week\_tot = 0;

 for (var i = 0; i < dates.length; i++) {

 markup += '\n<li data-role="list-divider">' + dates[i] + ' <span class="ui-li-count">' + daily[dates[i]] + '</span></li>'

 week\_tot += daily[dates[i]];

 var sortedKeys = new Array();

 for (var name in daydo[dates[i]]) {

 sortedKeys.push(name);

 }

 sortedKeys.sort();

 for (var j = 0; j < sortedKeys.length; j++) {

 name = sortedKeys[j];

 var duration = daydo[dates[i]][name];

 markup += '\n<li>' + name + ' <span class="ui-li-count">' + duration + '</span></li>';

 }

 }

 $("#report-page div:jqmData(role='content') ul").html(markup).listview('refresh');

 $("#report-page div:jqmData(role='content') h2").html("Week total hours: " + week\_tot);

 }

 </script>

</head>

<body>

# <div data-role="page" id="main-page">

 <div data-role="header" data-position="fixed" data-id="the-header">

 <h1>Activity Log</h1>

 <a href="#info-main-page" class="ui-btn-right ui-btn ui-shadow ui-btn-inline ui-mini ui-corner-all ui-btn-icon-right ui-icon-info" data-transition="slideup">Info</a>

 <div data-role="navbar">

 <ul>

 <li><a href="#report-page" data-icon="bars" data-transition="slideup">Log Report</a></li>

 <li><a href="#manage-page" data-icon="action" data-transition="slideup">Manage Data</a></li>

 <li><a href="#options-page" data-icon="gear" data-transition="slideup">Options</a></li>

 </ul>

 </div>

 </div>

##  <div data-role="content">

 <div class="ui-corner-all">

 <div class="ui-bar ui-bar-b">

 <h2>Select Activity</h2>

 </div>

 <div class="ui-body">

 <ul data-role="listview" data-filter="true" data-split-icon="edit">

 </ul>

 <p />

 </div>

 </div>

####  <div data-role="fieldcontain">

 <a href="javascript:doDataLink('ADD:New Activity')" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-b ui-btn-icon-left ui-icon-plus">Add New Activity</a>

 </div>

 </div>

 <div data-role="footer" data-position="fixed" data-id="the-footer">

 <h4>...</h4>

 </div>

 <div data-role="popup" id="edit-activity" class="ui-content" data-overlay-theme="b">

 <h3>Edit activity</h3>

 <form action="javascript:doSaveActivity()" method="">

 <label for="activity-name">Activity name:</label>

 <input type="text" name="name" id="activity-name" value="" />

 <input type="hidden" name="item-id" id="activity-item-id" value="" />

 <a href="javascript:doSaveActivity()" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-b ui-btn-icon-left ui-icon-check">Save</a>

 <a href="#" data-rel="back" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-icon-right ui-icon-back">Cancel</a>

 </form>

 </div>

</div>

# <div data-role="page" id="report-page">

 <div data-role="header" data-position="fixed" data-id="the-header" data-add-back-btn="true">

 <h1>Activity Log Report</h1>

 <a href="#info-report-page" class="ui-btn-right ui-btn ui-shadow ui-btn-inline ui-mini ui-corner-all ui-btn-icon-right ui-icon-info" data-transition="slideup">Info</a>

 <div data-role="navbar">

 <ul>

 <li><a href="javascript:doDataLink('RPD:'+(--reportOffSet))" data-icon="arrow-l">Previous Week</a></li>

 <li><a href="javascript:reportOffSet=0;doDataLink('RPD:'+reportOffSet)" data-icon="minus">Current Week</a></li>

 <li><a href="javascript:doDataLink('RPD:'+(++reportOffSet))" data-icon="arrow-r">Following Week</a></li>

 </ul>

 </div>

 </div>

##  <div data-role="content">

 <div class="ui-corner-all">

 <div class="ui-bar ui-bar-b">

 <h2>...</h2>

 </div>

 <div class="ui-body">

 <ul data-role="listview" data-filter="true" data-inset="false">

 </ul>

 <p />

 </div>

 </div>

####  <div data-role="fieldcontain">

 <a href="javascript:doDataLink('RPS:'+reportOffSet)" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-b ui-btn-icon-left ui-icon-mail">Send</a>

 </div>

 </div>

 <div data-role="footer" data-position="fixed" data-id="the-footer">

 <h4>...</h4>

 </div>

</div>

# <div data-role="page" id="manage-page">

 <div data-role="header" data-position="fixed" data-id="the-header" data-add-back-btn="true">

 <h1>Activity Log Management</h1>

 <a href="#info-manage-page" class="ui-btn-right ui-btn ui-shadow ui-btn-inline ui-mini ui-corner-all ui-btn-icon-right ui-icon-info" data-transition="slideup">Info</a>

 </div>

##  <div data-role="content">

 <form action="" method="">

 <div data-role="collapsible" data-theme="b" data-collapsed="false">

 <h2>Manage Activities</h2>

 <fieldset data-role="controlgroup" data-iconpos="right" data-filter="true">

 </fieldset>

####  <div data-role="fieldcontain">

 <a href="javascript:doOnSelected('Merge')" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-b ui-btn-icon-left ui-icon-recycle">Merge Selected</a>

 <a href="javascript:doOnSelected('Delete')" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-b ui-btn-icon-left ui-icon-delete">Delete Selected</a>

 </div>

 </div>

 <div data-role="collapsible" data-theme="b">

 <h2>Manage Log</h2>

####  <div data-role="fieldcontain">

 <a href="javascript:doOnAllData('Send')" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-b ui-btn-icon-left ui-icon-mail">Send All Data</a>

 <a href="javascript:doOnAllData('Delete')" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-b ui-btn-icon-left ui-icon-delete">Delete All Data</a>

 </div>

 </div>

 </form>

 </div>

 <div data-role="footer" data-position="fixed" data-id="the-footer">

 <h4>...</h4>

 </div>

 <div data-role="popup" id="confirm-action-selected" class="ui-content" data-overlay-theme="b">

 <h3>...</h3>

 <p>...</p>

 <p>Do you really want to proceed?</p>

 <form action="" method="">

 <a href="#" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-b ui-btn-icon-left ui-icon-check">Confirm</a>

 <a href="#" data-rel="back" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-icon-right ui-icon-back">Cancel</a>

 </form>

 </div>

 <div data-role="popup" id="confirm-action-all" class="ui-content" data-overlay-theme="b">

 <h3>...</h3>

 <p>Do you really want to proceed?</p>

 <form action="" method="">

 <a href="#" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-b ui-btn-icon-left ui-icon-check">Confirm</a>

 <a href="#" data-rel="back" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-icon-right ui-icon-back">Cancel</a>

 </form>

 </div>

</div>

# <div data-role="page" id="options-page">

 <div data-role="header" data-position="fixed" data-id="the-header" data-add-back-btn="true">

 <h1>Activity Log Options</h1>

 <a href="#info-options-page" class="ui-btn-right ui-btn ui-shadow ui-btn-inline ui-mini ui-corner-all ui-btn-icon-right ui-icon-info" data-transition="slideup">Info</a>

 </div>

##  <div data-role="content">

 <form action="" method="">

 <div data-role="collapsible" data-theme="b" data-collapsed="false">

 <h2>Application</h2>

####  <div data-role="fieldcontain">

 <label for="timer\_interval-opt">Timer interval (min):</label>

 <input type="range" name="timer\_interval-opt" id="timer\_interval-opt" min="0" max="60" data-highlight="true" />

 </div>

####  <div data-role="fieldcontain">

 <label for="record\_threshold-opt">Record threshold (sec):</label>

 <input type="range" name="record\_threshold-opt" id="record\_threshold-opt" min="0" max="60" step="5" data-highlight="true" />

 </div>

####  <div data-role="fieldcontain">

 <label for="default\_email-opt">Default e-mail:</label>

 <input type="email" name="default\_email-opt" id="default\_email-opt" value="" />

 </div>

####  <div data-role="fieldcontain">

 <label for="field\_separator-opt">Field separator:</label>

 <input type="text" name="field\_separator-opt" id="field\_separator-opt" value="" />

 </div>

 </div>

 <div data-role="collapsible" data-theme="b">

 <h2>Report</h2>

####  <div data-role="fieldcontain">

 <label for="report\_weekstart-opt" class="select">Week starts on:</label>

 <select name="report\_weekstart-opt" id="report\_weekstart-opt">

 <option value="2">Monday</option>

 <option value="3">Tuesday</option>

 <option value="4">Wednesday</option>

 <option value="5">Thursday</option>

 <option value="6">Friday</option>

 <option value="7">Saturday</option>

 <option value="1">Sunday</option>

 </select>

 </div>

####  <div data-role="fieldcontain">

 <label for="report\_interval-opt" class="select">Duration Interval:</label>

 <select name="report\_interval-opt" id="report\_interval-opt">

 <option value="1">1 minute</option>

 <option value="5">5 minutes</option>

 <option value="15">15 minutes</option>

 <option value="30">30 minutes</option>

 </select>

 </div>

####  <div data-role="fieldcontain">

 <label for="report\_round-opt" class="select">Round method:</label>

 <select name="report\_round-opt" id="report\_round-opt">

 <option value="round">Round to nearest</option>

 <option value="ceil">Always round up</option>

 <option value="floor">Always round down</option>

 </select>

 </div>

 </div>

####  <div data-role="fieldcontain">

 <a href="javascript:doSaveOptions()" class="ui-shadow ui-btn ui-mini ui-corner-all ui-btn-inline ui-btn-b ui-btn-icon-left ui-icon-check">Apply Changes</a>

 </div>

 </form>

 </div>

 <div data-role="footer" data-position="fixed" data-id="the-footer">

 <h4>...</h4>

 </div>

</div>

# <div data-role="page" id="info-main-page">

 <div data-role="header" data-position="fixed" data-id="the-header" data-add-back-btn="true">

 <h1>Info: Activity Log</h1>

 <a href="#about-page" class="ui-btn-right ui-btn ui-shadow ui-btn-inline ui-mini ui-corner-all ui-btn-icon-right ui-icon-info" data-transition="slideup">About</a>

 </div>

##  <div data-role="content">

 <p>The main page presents a searchable list of all registered activities.</p>

 <p>By tapping on the list, an activity can be started or stopped.

 Starting an activity stops the previously running one if any.

 The running activity is highlighted and reported in status bar of all pages.

 By tapping on the activity name in the status bar the current activity time is shown.</p>

 <p>The user can add activities by tapping the button below the list. The newly created activity is named "New Activity".

 Action names can be edited by tapping on the icon at the right of the activity.</p>

 <p>While the list is loaded in alphabetical order, adding or editin activities don't rearrange the sort order.

 A reload of the list, hence its reordering, can be obtained by moving to other pages.</p>

 <p>The navigation bar links to the report and the management pages as well as to the options page.</p>

 </div>

 <div data-role="footer" data-position="fixed" data-id="the-footer">

 <h4>...</h4>

 </div>

</div>

# <div data-role="page" id="info-report-page">

 <div data-role="header" data-position="fixed" data-id="the-header" data-add-back-btn="true">

 <h1>Info: Activity Log report</h1>

 <a href="#about-page" class="ui-btn-right ui-btn ui-shadow ui-btn-inline ui-mini ui-corner-all ui-btn-icon-right ui-icon-info" data-transition="slideup">About</a>

 </div>

##  <div data-role="content">

 <p>The report page presents the aggregated weekly activity log, starting from the current one

 , and providing a navigation bar to move to previous and following weeks.</p>

 <p>The report presents the data grouped by day, and each activity log duration is aggregated.

 The aggregated duration value is rounded according to the configuration (see the <a href="#info-manage-page">options</a>).</p>

 <p>The send button allows the user to e-mail the displayes report in textual format.</p>

 </div>

 <div data-role="footer" data-position="fixed" data-id="the-footer">

 <h4>...</h4>

 </div>

</div>

# <div data-role="page" id="info-manage-page">

 <div data-role="header" data-position="fixed" data-id="the-header" data-add-back-btn="true">

 <h1>Info: Activity Log Management</h1>

 <a href="#about-page" class="ui-btn-right ui-btn ui-shadow ui-btn-inline ui-mini ui-corner-all ui-btn-icon-right ui-icon-info" data-transition="slideup">About</a>

 </div>

##  <div data-role="content">

 <p>The management page presents a first section with the list of activities, providing for selecting one or more of them.

 The user can then decide to merge or delete the selected ones.</p>

 <p>The merge action results in all data log being reassigned to one of the selected activities.

 This activity is then renamed to include the name of all the other ones, and these are deleted.</p>

 <p>The delete action first removes all related data log, and finally all selected activities.</p>

 <p>The second section of the page provides actions on the whole data log:

 <ul>

 <li>for sending it via e-mail;</li>

 <li>for removing it completely.</li>

 </p>

 </div>

 <div data-role="footer" data-position="fixed" data-id="the-footer">

 <h4>...</h4>

 </div>

</div>

# <div data-role="page" id="info-options-page">

 <div data-role="header" data-position="fixed" data-id="the-header" data-add-back-btn="true">

 <h1>Info: Activity Log Options</h1>

 <a href="#about-page" class="ui-btn-right ui-btn ui-shadow ui-btn-inline ui-mini ui-corner-all ui-btn-icon-right ui-icon-info" data-transition="slideup">About</a>

 </div>

##  <div data-role="content">

 <p>The option page allows the user to manage the application options.</p>

 <h3>The timer interval in minutes</h3>

 <p>This is the only function of the application that requires it to be running in order to work.</p>

 <p>By setting it to 0, the timer is disabled. By setting it to anything up to 60, it runs and a beep is emitted any given minutes.</p>

 <p>This might be used as a sort of reminder or attention catcher.</p>

 <h3>The recording threshold in seconds</h3>

 <p>Any recording below the threshold is discarded.</p>

 <h3>Default E-Mail to send reports and data to</h3>

 <p>The two functionalities that send e-mails will default to use this address.</p>

 <h3>The field separator<h3>

 <p>One or more characters used to separate the fields. It defaults to comma.</p>

 <h3>The first day of your week</h3>

 <p>The reports display weeks taking this into consideration.</p>

 <p>It defaults to Monday, but in some instances it might be useful to have it set to a different day.</p>

 <h3>The Duration interval and the rounding method.</h3>

 <p>The aggregated duration can be rounded to intervals of 1, 5, 15, or 30 minutes.</p>

 <p>The rounding can be to the nearest interval, always up to, or always down to.</p>

 </div>

 <div data-role="footer" data-position="fixed" data-id="the-footer">

 <h4>...</h4>

 </div>

</div>

# <div data-role="page" id="about-page">

 <div data-role="header" data-position="fixed" data-id="the-header" data-add-back-btn="true">

 <h1>About Activity Log</h1>

 </div>

##  <div data-role="content">

 <p>This app records the time spent at doing an activity, and generates weekly reports of the log.</p>

 <p>It has been developed using <em>RFO BASIC!</em> (http://laughton.com/basic/) for the backend management of the database,

 and of the program functionalities, and <em>jQuery mobile</em> (http://jquerymobile.com/) for the user interface.</p>

 <p>The UI provides several pages:

 <ul>

 <li>The main page shows the activities and provides for recording, adding, and editing activities.</li>

 <li>The report page shows the weekly logs and allows for e-mailing one week log.</li>

 <li>The management page shows the activities and provides management actions.</li>

 <li>The options page shows the application options.</li>

 <li>The info pages shows basic instructions, information and credits.</li>

 </ul>

 </p>

 <p>The app has been developed by <em>cspa</em> and released to the BASIC! community.</p>

 <p>I hope you enjoy it.</p>

 </div>

 <div data-role="footer" data-position="fixed" data-id="the-footer">

 <h4>...</h4>

 </div>

</div>

</body>

</html>

# BUNDLE.CREATE G % Contains all globally available values. Referenced as 1!

GOSUB FUNCTION\_DEFITIONS

CALL CheckEnvironment()

CALL OpenDB()

CALL LoadSound()

CALL LoadAppHtml()

DO

 DO

##  HTML.GET.DATALINK data$

 UNTIL data$ <> ""

 type$ = LEFT$(data$, 4)

 data$ = MID$(data$, 5)

 IF type$ = "DAT:" THEN

 type$ = LEFT$(data$, 4)

 data$ = MID$(data$, 5)

 ENDIF

 IF type$ = "BAK:" THEN

 IF data$ = "1" THEN HTML.GO.BACK ELSE D\_U.BREAK

 ELSEIF type$ = "LOD:" THEN

 CALL PushActivityList(data$)

 IF data$ = "main" THEN

 CALL PushRunningActivity()

 BUNDLE.CONTAIN G, "active\_timer", active

 IF !active THEN

 CALL LoadOptions()

 CALL StartStopTimer()

 ENDIF

 ELSEIF data$ <> "mgmt" THEN

 PRINT "Unexpected datalink "; type$; data$

 D\_U.BREAK

 ENDIF

 ELSEIF type$ = "TAP:" THEN

 CALL StartStopActivity(data$)

 ELSEIF type$ = "RUN:" THEN

 CALL ShowRunningTime(data$)

 ELSEIF type$ = "ADD:" THEN

 CALL AddActivity(data$)

 ELSEIF type$ = "SAV:" THEN

 CALL UpdateActivity(data$)

 CALL PushRunningActivity()

 ELSEIF type$ = "OPT:" THEN

 CALL UpdateOptions(data$)

 CALL LoadOptions()

 CALL StartStopTimer()

 ELSEIF type$ = "RPD:" THEN

 CALL PushReportData(VAL(data$))

 ELSEIF type$ = "RPS:" THEN

 CALL SendWeeklyReport(VAL(data$))

 ELSEIF type$ = "ALL:" THEN

 IF data$ = "Send" THEN

 CALL SendAllData()

 ELSEIF data$ = "Delete" THEN

 CALL DeleteAllData()

 ELSE

 PRINT "Unexpected datalink "; type$; data$

 D\_U.BREAK

 ENDIF

 ELSEIF type$ = "SMG:" THEN

 CALL MergeSelectedActivities(data$)

 ELSEIF type$ = "SDL:" THEN

 CALL DeleteSelectedActivities(data$)

 ELSEIF type$ = "POP:" THEN

 POPUP data$, 0, 0, 0

 ! ELSEIF type$ = "LNK:" THEN

 ! HTML.LOAD.URL data$

 ! TODO: find why moving to external link

 ! , JQM doesn't redraw the page.

 ELSE

 PRINT "Unexpected datalink "; type$; data$

 D\_U.BREAK

 ENDIF

UNTIL 0

CALL CloseAll()

END

FUNCTION\_DEFITIONS:

FN.DEF CheckEnvironment()

! Check if running as APK.

! Set home accordingly.

 FILE.ROOT tmp$

 BUNDLE.PUT 1, "isAPK", IS\_IN("rfo-basic", tmp$) = 0

 BUNDLE.GET 1, "isAPK", IS\_APK

 BUNDLE.PUT 1, "assets", "activitylog/"

 IF IS\_APK THEN

 BUNDLE.PUT 1, "home", ""

 FILE.EXISTS found, home$ + "version.txt"

 IF !found THEN

 TEXT.OPEN w, tmp, home$ + "version.txt"

 TEXT.WRITELN tmp, "1.0.0"

 TEXT.CLOSE tmp

 ENDIF

 FILE.EXISTS found, "../databases"

 IF !found THEN FILE.MKDIR "../databases"

 ELSE

 BUNDLE.PUT 1, "home", "activitylog/"

 ENDIF

FN.END

FN.DEF OpenDB()

! Open and create the DB with default values.

 SQL.OPEN DB, "activitylog.db"

 BUNDLE.PUT 1, "DB", DB

 SQL.QUERY cur, DB, "sqlite\_master", "name", "type='table' AND name='activity'"

 SQL.QUERY.LENGTH found, cur

 IF !found THEN

 SQL.NEW\_TABLE DB, "activity", "name"

 SQL.INSERT DB, "activity", "name", "Idle"

 SQL.INSERT DB, "activity", "name", "Administration"

 SQL.INSERT DB, "activity", "name", "Meeting"

 ENDIF

 SQL.QUERY cur, DB, "sqlite\_master", "name", "type='table' AND name='log'"

 SQL.QUERY.LENGTH found, cur

 IF !found THEN

 SQL.NEW\_TABLE DB, "log", "activity", "start\_time", "end\_time", "duration"

 ENDIF

 SQL.QUERY cur, DB, "sqlite\_master", "name", "type='table' AND name='option'"

 SQL.QUERY.LENGTH found, cur

 IF !found THEN

 SQL.NEW\_TABLE DB, "option", "name", "value"

 SQL.INSERT DB, "option", "name", "timer\_interval", "value", "0"

 SQL.INSERT DB, "option", "name", "record\_threshold", "value", "60"

 SQL.INSERT DB, "option", "name", "report\_weekstart", "value", "2"

 SQL.INSERT DB, "option", "name", "report\_interval", "value", "15"

 SQL.INSERT DB, "option", "name", "report\_round", "value", "round"

 SQL.INSERT DB, "option", "name", "default\_email", "value", ""

 SQL.INSERT DB, "option", "name", "field\_separator", "value", ","

 ENDIF

 Fn.RTN DB

FN.END

## FN.DEF LoadOptions()

! Load the options and push them to html.

 BUNDLE.GET 1, "DB", DB

 SQL.QUERY cur, DB, "option", "\_id, name , value"

 opts$ = ""

 DO

 SQL.NEXT eoq, cur, id$, name$, value$

 IF !eoq THEN

 BUNDLE.PUT 1, "opt." + name$, value$

 IF LEN(opts$) > 0 THEN opts$ += ", "

 opts$ += "'" + name$ + "':'" + value$ + "'"

 ENDIF

 UNTIL eoq

 HTML.LOAD.URL "javascript:doSetOptions({" + opts$ + "})"

FN.END

## FN.DEF StartStopTimer()

! Start the timer.

 BUNDLE.CONTAIN 1, "active\_timer", active

 IF active THEN

 BUNDLE.GET 1, "active\_timer", active\_timer

 ELSE

 active\_timer = 0

 ENDIF

 BUNDLE.GET 1, "opt.timer\_interval", tmp$

 tmp = VAL(tmp$)

 IF active\_timer <> tmp THEN

 IF active\_timer THEN TIMER.CLEAR

 IF tmp > 0 THEN

 tmp = tmp \* 60 \* 1000

 TIMER.SET tmp

 ENDIF

 BUNDLE.PUT 1, "active\_timer", tmp

 ENDIF

FN.END

## FN.DEF LoadSound()

! Load the sound for the timer.

 BUNDLE.GET 1, "home", home$

 SOUNDPOOL.OPEN 1

 SOUNDPOOL.LOAD tmp, home$ + "beep.mp3"

 BUNDLE.PUT 1, "sound.beep", tmp

FN.END

## FN.DEF LoadAppHtml()

! Load the html part.

 BUNDLE.GET 1, "assets", home$

 POPUP "Loading...", 0, 0, 0

 HTML.OPEN

 !HTML.CLEAR.CACHE

 HTML.LOAD.URL home$ + "activitylog.html"

FN.END

## FN.DEF PushActivityList(data$)

! Push the activity list to html.

 BUNDLE.GET 1, "DB", DB

 SQL.QUERY cur, DB, "activity", "\_id, name", "", "name ASC"

 DO

 SQL.NEXT eoq, cur, id$, name$

 IF !eoq THEN HTML.LOAD.URL "javascript:doAddActivity('" + data$ + "', " + id$ + ", '" + name$ + "')"

 UNTIL eoq

FN.END

FN.DEF PushReportData(offset\_week)

! Collect and push to html the week report data.

! The selected week is the current - offset\_week.

 BUNDLE.GET 1, "DB", DB

 BUNDLE.GET 1, "opt.report\_weekstart", week\_start$

 wkst = VAL(week\_start$)

 ! Calculate the start of the week to report.

 now = TIME()

 TIME now, Year$, Month$, Day$, Hour$, Minute$, Second$, WeekDay, isDST

 Range = (wkst - WeekDay)

 IF wkst > WeekDay THEN Range -= 7

 RepDay = now + Range \* 24 \* 60 \* 60 \* 1000

 TIME RepDay, Year$, Month$, Day$, Hour$, Minute$, Second$, WeekDay, isDST

 RepDay = TIME(Year$, Month$, Day$, 0, 0, 0)

 IF offset\_week THEN RepDay += offset\_week \* 7 \* 24 \* 60 \* 60 \* 1000

 ! Prepare all dates to be reported.

 BUNDLE.CREATE Dates

 Filter$ = "DATETIME(start\_time/1000, 'unixepoch') >= DATETIME(" + STR$(RepDay/1000) + ", 'unixepoch')"

 FOR i = 1 TO 7

 TIME RepDay, Year$, Month$, Day$, Hour$, Minute$, Second$, WeekDay, isDST

 Date$ = Year$ + "/" + Month$ + "/" + Day$

 BUNDLE.CREATE DayActivities

 BUNDLE.PUT Dates, Date$, DayActivities

 RepDay += 24 \* 60 \* 60 \* 1000

 NEXT

 Filter$ += " AND DATETIME(start\_time/1000, 'unixepoch') < DATETIME(" + STR$(RepDay/1000) + ", 'unixepoch')"

 ! Collect activities in the date range of the selected week.

 SQL.QUERY cur, DB, "log", "activity, start\_time, duration", Filter$

 DO

 SQL.NEXT eoq, cur, act\_id$, start$, duration$

 IF !eoq & duration$ <> "" THEN

 TIME VAL(start$), Year$, Month$, Day$, Hour$, Minute$, Second$, WeekDay, isDST

 Date$ = Year$ + "/" + Month$ + "/" + Day$

 BUNDLE.GET Dates, Date$, DayActivities

 BUNDLE.CONTAIN DayActivities, act\_id$, found

 IF !found

 BUNDLE.PUT DayActivities, act\_id$, VAL(duration$)

 ELSE

 BUNDLE.GET DayActivities, act\_id$, tmp

 BUNDLE.PUT DayActivities, act\_id$, tmp + VAL(duration$)

 ENDIF

 ENDIF

 UNTIL eoq

 ! Retrieve the options and the activity names.

 BUNDLE.GET 1, "opt.report\_interval", rep\_interval$

 BUNDLE.GET 1, "opt.report\_round", method$

 interval = VAL(rep\_interval$)

 BUNDLE.CREATE Activities

 SQL.QUERY cur, DB, "activity", "\_id, name"

 DO

 SQL.NEXT eoq, cur, act\_id$, act\_name$

 IF !eoq THEN BUNDLE.PUT Activities, act\_id$, act\_name$

 UNTIL eoq

 ! Sort the dates.

 BUNDLE.KEYS Dates, dk

 LIST.TOARRAY dk, dts$[]

 ARRAY.SORT dts$[]

 ARRAY.REVERSE dts$[]

 BUNDLE.GET 1, "opt.field\_separator", fs$

 reportSubject$ = "Activity log for week ending on " + dts$[1]

 reportBody$ = "\"DATE\"" + fs$ + "\"ACTIVITY\"" + fs$ + "\"DURATION\"\n"

 dates\_ja$ = "" % sorted array of dates.

 daily\_ja$ = "" % hash of dates -> hours.

 daydo\_ja$ = "" % hash of dates -> hash of activities -> hours

 FOR i = 1 TO 7

 IF i > 1 THEN dates\_ja$ += ", "

 dates\_ja$ += "'" + dts$[i] + "'"

 BUNDLE.GET Dates, dts$[i], DayActivities

 BUNDLE.KEYS DayActivities, dk

 LIST.SIZE dk, cnt

 day\_tot = 0

 IF i > 1 THEN daydo\_ja$ += ", "

 daydo\_ja$ += "'" + dts$[i] + "':{"

 FOR j = 1 TO cnt

 LIST.GET dk, j, act\_id$

 BUNDLE.GET DayActivities, act\_id$, tmp

 BUNDLE.GET Activities, act\_id$, act\_name$

 tmp = DurationRound(tmp, interval, method$) % Round as by options.

 tmp = ROUND(tmp \* 100) / 100 % Ensure to have at most 2 decimals.

 IF j > 1 THEN daydo\_ja$ += ", "

 daydo\_ja$ += "'" + act\_name$ + "':" + STR$(tmp)

 day\_tot += tmp

 reportBody$ += dts$[i] + fs$ + "\"" + act\_name$ + "\"" + fs$ + STR$(tmp) + "\n"

 NEXT

 daydo\_ja$ += "}"

 IF i > 1 THEN daily\_ja$ += ", "

 day\_tot = ROUND(day\_tot \* 100) / 100 % Ensure to have at most 2 decimals.

 daily\_ja$ += "'" + dts$[i] + "':" + STR$(day\_tot)

 NEXT

 BUNDLE.PUT 1, "report.subject", reportSubject$

 BUNDLE.PUT 1, "report.body", reportBody$

 ARRAY.DELETE dts$[]

 HTML.LOAD.URL "javascript:doReportData([" + dates\_ja$ + "], {" + daily\_ja$ + "}, {" + daydo\_ja$ + "})"

FN.END

FN.DEF SendWeeklyReport(offset\_week)

! Send email with weekly report.

! Input is ignored.

 BUNDLE.GET 1, "opt.default\_email", to$

 BUNDLE.GET 1, "report.subject", subject$

 BUNDLE.GET 1, "report.body", body$

 EMAIL.SEND to$, subject$, body$

FN.END

FN.DEF SendAllData()

! Send all log data via e-mail.

 BUNDLE.GET 1, "DB", DB

 BUNDLE.CREATE Activities

 SQL.QUERY cur, DB, "activity", "\_id, name"

 DO

 SQL.NEXT eoq, cur, act\_id$, act\_name$

 IF !eoq THEN BUNDLE.PUT Activities, act\_id$, act\_name$

 UNTIL eoq

 body$ = "\"ACTIVITY\"" + fs$ + "\"START\"" + fs$ + "\"END\"" + fs$ + "\"DURATION\"\n"

 BUNDLE.GET 1, "opt.field\_separator", fs$

 SQL.QUERY cur, DB, "log", "activity, start\_time, end\_time, duration", ""

 DO

 SQL.NEXT eoq, cur, act\_id$, start$, end$, duration$

 IF !eoq & end$ <> "" THEN

 TIME VAL(start$), Year$, Month$, Day$, Hour$, Minute$, Second$, WeekDay, isDST

 start$ = Year$ + "/" + Month$ + "/" + Day$ + " " + Hour$ + ":" + Minute$ + ":" + Second$

 TIME VAL(end$), Year$, Month$, Day$, Hour$, Minute$, Second$, WeekDay, isDST

 LET end$ = Year$ + "/" + Month$ + "/" + Day$ + " " + Hour$ + ":" + Minute$ + ":" + Second$

 BUNDLE.GET Activities, act\_id$, act\_name$

 body$ += "\"" + act\_name$ + "\"" + fs$ + start$ + fs$ + end$ + fs$ + duration$ + "\n"

 ENDIF

 UNTIL eoq

 BUNDLE.GET 1, "opt.default\_email", to$

 EMAIL.SEND to$, "Activity log data", body$

FN.END

FN.DEF DeleteAllData()

! Remove all log data.

 BUNDLE.GET 1, "DB", DB

 SQL.DELETE DB, "log", ""

 POPUP "All log data deleted.", 0, 0, 0

FN.END

FN.DEF MergeSelectedActivities(data$)

! Merge the actvities for which the ids are provided in data$.

 BUNDLE.GET 1, "DB", DB

 SPLIT ids$[], data$, ","

 ARRAY.SORT ids$[]

 ARRAY.LENGTH count, ids$[]

 first$ = ids$[1]

 SQL.QUERY cur, DB, "activity", "name", "\_id='" + first$ + "'"

 SQL.NEXT eoq, cur, new\_name$

 FOR i = 2 TO count

 SQL.UPDATE DB, "log", "activity", first$: "activity='" + ids$[i] + "'"

 SQL.QUERY cur, DB, "activity", "\_id, name", "\_id='" + ids$[i] + "'"

 SQL.NEXT eoq, cur, act\_id$, act\_name$

 new\_name$ += "/" + act\_name$

 SQL.DELETE DB, "activity", "\_id = '" + ids$[i] + "'"

 NEXT

 SQL.UPDATE DB, "activity", "name", new\_name$: "\_id='" + first$ + "'"

 POPUP "Activities merged.", 0, 0, 0

 CALL PushActivityList("mgmt")

FN.END

FN.DEF DeleteSelectedActivities(data$)

! Delete the actvities for which the ids are provided in data$.

 BUNDLE.GET 1, "DB", DB

 SPLIT ids$[], data$, ","

 ARRAY.LENGTH count, ids$[]

 FOR i = 1 TO count

 SQL.DELETE DB, "log", "activity = '" + ids$[i] + "'"

 SQL.DELETE DB, "activity", "\_id = '" + ids$[i] + "'"

 NEXT

 POPUP "Activities deleted.", 0, 0, 0

 CALL PushActivityList("mgmt")

FN.END

FN.DEF PushRunningActivity()

! Check the running activity and push it to html.

 BUNDLE.GET 1, "DB", DB

 SQL.QUERY cur, DB, "log", "activity, end\_time", "end\_time isnull"

 SQL.NEXT eoq, cur, id$, end$

 IF eoq THEN

 HTML.LOAD.URL "javascript:doUpdateStatus('', '')"

 ELSE

 HTML.LOAD.URL "javascript:doUpdateStatus('" + id$ + "', '+')"

 ENDIF

FN.END

FN.DEF StartStopActivity(data$)

! Stop running activity if any, and starts the new one if any.

! Delete running activity if below threshold.

 BUNDLE.GET 1, "DB", DB

 t = TIME()

 now$ = STR$(t)

 SQL.QUERY cur, DB, "log", "\_id, activity, start\_time", "end\_time isnull"

 SQL.NEXT eoq, cur, log$, id$, start$

 IF !eoq THEN

 BUNDLE.GET 1, "opt.record\_threshold", tmp$

 threshold = VAL(tmp$)

 duration = ROUND((t - VAL(start$)) / 1000)

 IF duration < threshold THEN

 POPUP "Duration below threshold. Record not saved.", 0, 0, 0

 SQL.DELETE DB, "log", "\_id='" + log$ + "'"

 ELSE

 dur$ = STR$(duration)

 SQL.UPDATE DB, "log", "end\_time", now$, "duration", dur$: "\_id='" + log$ + "'"

 ENDIF

 HTML.LOAD.URL "javascript:doUpdateStatus('" + id$ + "', '-')"

 ENDIF

 IF data$ <> id$ THEN

 SQL.INSERT DB, "log", "activity", data$, "start\_time", now$

 HTML.LOAD.URL "javascript:doUpdateStatus('" + data$ + "', '+')"

 ENDIF

FN.END

FN.DEF ShowRunningTime(data$)

! Calculate and display the running activity time.

 BUNDLE.GET 1, "DB", DB

 t = TIME()

 now$ = STR$(t)

 SQL.QUERY cur, DB, "log", "\_id, activity, start\_time", "end\_time isnull"

 SQL.NEXT eoq, cur, log$, id$, start$

 duration = 0

 IF !eoq THEN

 duration = ROUND((t - VAL(start$)) / 1000)

 ENDIF

 IF duration > 60 THEN

 minutes = duration / 60

 min = FLOOR(minutes)

 sec = ROUND((minutes - min) \* 60)

 IF min > 60 THEN

 hours = min / 60

 h = FLOOR(hours)

 min = ROUND((hours - h) \* 60)

tt$ = STR$(h) + FORMAT$(":%#", min) + FORMAT$(":%#", sec)

 ELSE

 tt$ = "00" + FORMAT$(":%#", min) + FORMAT$(":%#", sec)

 ENDIF

 ELSE

 tt$ = "00:00" + FORMAT$(":%#", ROUND(duration))

 ENDIF

 POPUP "Current activity running for " + REPLACE$(tt$, ".0", ""), 0, 0, 0

FN.END

FN.DEF AddActivity(data$)

! Add a new activity, and push it to html.

 BUNDLE.GET 1, "DB", DB

 SQL.INSERT DB, "activity", "name", data$

 SQL.QUERY cur, DB, "activity", "\_id, name", "", "\_id DESC LIMIT 1"

 SQL.NEXT eoq, cur, id$, name$

 HTML.LOAD.URL "javascript:doAddActivity('main', " + id$ + ", '" + name$ + "')"

FN.END

FN.DEF UpdateActivity(data$)

! Updates the name of the selected activity.

! Input is in the form "id\nname".

 BUNDLE.GET 1, "DB", DB

 SPLIT parts$[], data$, "\n"

 SQL.UPDATE DB, "activity", "name", parts$[2]: "\_id='" + parts$[1] + "'"

 UNDIM parts$[]

FN.END

FN.DEF UpdateOptions(data$)

! Update options.

! Input is in the form "name1=value1\nname2=value2\n...".

 BUNDLE.GET 1, "DB", DB

 SPLIT parts$[], data$, "\n"

 ARRAY.LENGTH count, parts$[]

 FOR i = 1 TO count

 eq = IS\_IN("=", parts$[i])

 name$ = LEFT$(parts$[i], eq - 1)

 value$ = MID$(parts$[i], eq + 1)

 SQL.UPDATE DB, "option", "value", value$: "name='" + name$ + "'"

 NEXT

 UNDIM parts$[]

FN.END

FN.DEF DurationRound(seconds, interval, method$)

! Adjust duration to the interval, by means of the selected method.

! Used at time of reporting on aggregated values.

 hours = seconds / 60 / 60

 h = FLOOR(hours)

 m = (hours - h) \* 60

 IF method$ = "ceil" THEN

 FN.RTN h + CEIL(m / interval) \* interval / 60

 ELSEIF method$ = "floor" THEN

 FN.RTN h + FLOOR(m / interval) \* interval / 60

 ELSE

 FN.RTN h + ROUND(m / interval) \* interval / 60

 ENDIF

FN.END

FN.DEF CloseAll()

! Close all open handles.

 POPUP "Closing...", 0, 0, 0

 TIMER.CLEAR

 SOUNDPOOL.RELEASE

 HTML.CLOSE

 BUNDLE.GET 1, "DB", DB

 SQL.CLOSE DB

 BUNDLE.GET 1, "isAPK", IS\_APK

 IF IS\_APK THEN EXIT

FN.END

RETURN

## ONTIMER:

! Play the sound every given amount of minutes - see StartStopTimer().

 BUNDLE.GET G, "sound.beep", snd

 SOUNDPOOL.PLAY tmp, snd, 0.99, 0.99, 1, 0, 1

TIMER.RESUME