

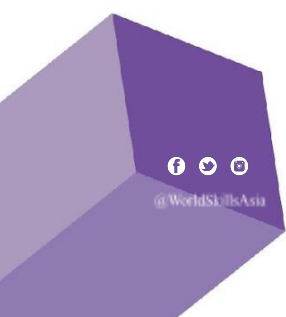
WorldSkills Asia Online Friendly Skills Games 2021

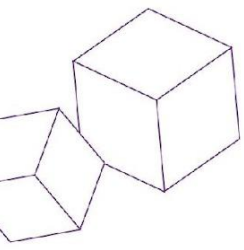
IT Software solutions for business

TEST PROJECT

Session 3

Part 2





Mobile App

Introduction

Since it is customary for the company to monitor the physical condition and drivers' health, much attention is paid to the temporary route plan preparation. To solve this problem, it was decided to develop a small mobile application in which drivers will be able to observe the general plan, as well as add actions that were not originally planned for the trip. The main screen contains information about the truck and the current route.

It is necessary to take into account the provided application layouts and arrange the elements in accordance with the layout.

For the Mobile App module you need to use the already prepared API from the <http://web.ws.int:8051/api/> and create data exchange through this API. Detailed information about all methods, parameters, return types and status codes you can find in the provided API documentation (presented as postman collection and as html-document).

For usability testing and assessment of your Mobile App, please, use your competitor ID (workstation number) and password (from info.txt file) where applicable. Also use the corresponding TruckNumber and TransportTaskId.

Truck info

This screen should be opened first, when the application is launched from the applications list on the emulator.

As the title, you need to display the vendor and model of the truck.

In the basic information block, you need to display:

- Truck number,
- List of drivers.

Currently the driving should be displayed with the mark "(current driver)" and be at the top of the list.

Time management

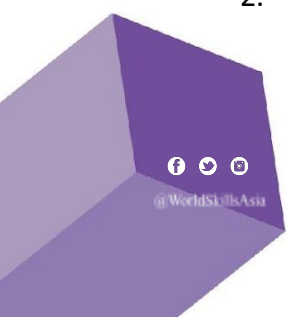
It is necessary to display a countdown timer (in the format hours:minutes:seconds) until the next event. To the right of the timer, the name of the next scheduled event is indicated with the mark "before".

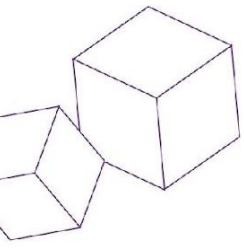
There are also 2 buttons.

1. SOS

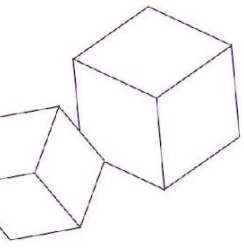
Sends the current coordinates of the truck to the server (at the moment it can be random values of longitude and latitude).

2. Add event





Goes to the screen for adding an uncommon event.



Current task timeline

The time plan consists of various types of events and is displayed as a line with dots.

The dots (circles) on the line are events planned on the route or added on the way. The color of the circle depends on the type of event (the colors are defined in the database). For past events, the color is applied only to the circle (external border), and the fill of the circle remains gray. The next event is displayed in bright green, and all other upcoming events are displayed in black.

To the left of the circle, the time according to the plan is displayed, to the right - the type of event. You should keep in mind that the event type can contain a comment, if it is present, it should be displayed in gray with brackets. If the comment is too long, then you need to limit it to the first 30 characters, and then put three dots. When changing the driver, you must manually form a comment in the format "(to {DriverName})".

Since the trip may take more than one day, all events should be grouped by date, as it is shown on the layout.

The estimated arrival date should be displayed below the main timeline.

Add event Screen

Since various emergency situations can happen on the road, it is necessary to provide a separate screen for fixing them. Only emergency situations should be displayed in the list of events.

Provide additional fields for describing the place of the accident (for example "the 10th kilometer after a tall tree") and a multi-line comment. It should also be possible to add several photos illustrating the event. It should be possible to select photos from the gallery, as well as using the camera. A preview of added images of the entire list should be implemented. The user should be able to delete the attached photo.

When you click on the Save button, information about the new event should be sent to the server using the appropriate method. After sending information about the event to the server, the timeline on the main window should be updated taking into account the newly added event.

Submitting the Task

When finished, leave the **emulator open** with the latest version of the mobile app **installed** (icon should be in the list of applications).

Also don't forget to upload your source code to the Version control system.

