Module « Mobile Development »

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Project « Ovalion »

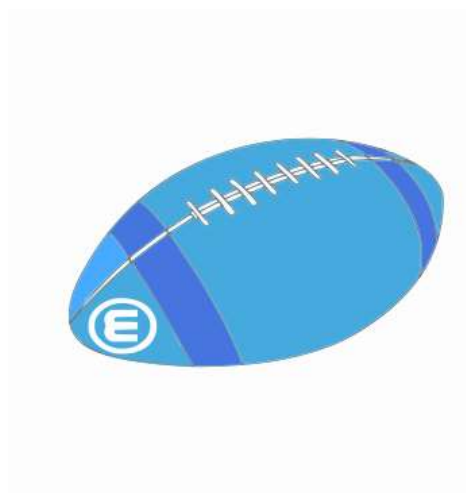# Request for proposal

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Introduction

The aim of this request of proposal (RFP) is to present the requirements for the Ovalion project.

1. Company description

EpiStades is a French tour operator which organizes events with bus trips and match tickets for rugby supporters.

Founded in 2012 in the rose city of Toulouse (the last year the club won the French Cup), the society turnover is continually increasing since its creation. Initially created to carry Toulousians supporters to away matches, EpiStades wants now to expand its business to all Top 14's clubs. In this context, EpiStades needs to equip itself with an application for supporters. The name of this application is Ovalion.

2. Project context

The provider will have to create an application, firstly available Android, according to this RFP.

The application must allow the supporters to select its favourite team and to:

- make a travel reservation,
- check on available travels,
- be advised of its bus status.

3. Requirements

The software must implement the following requirements and are organized in three categories:

- REQ_FUNC_XXX: functional requirements,
- REQ_IHM_XXX: IHM requirements.

a. Functional requirements

REQ_FUNC_010	The main functionalities must be separated in five categories: - Parameters: which allow the user to choose his favourite team, - Calendar, - My Team, - Booking: which allows user to reserve a trip, - My Trips: which list all user's trips.
REQ_FUNC_020	Parameter: The user must select its favourite team before accessing the application core.
REQ_FUNC_030	Parameter: The user can select the option "all team" if he wants to have access to all teams.
REQ_FUNC_040	Calendar: Ovalion must contain a calendar.
REQ_FUNC_050	Calendar: The calendar contains all matches of the preselected team.
REQ_FUNC_060	Calendar: Match information are available by selecting it on the calendar.
REQ_FUNC_070	Booking: Ovalion must contain a reservation tab.
REQ_FUNC_080	Calendar: The platform reservation is accessible from the calendar.
REQ_FUNC_090	Booking: Reservations are available one month before the match.
REQ_FUNC_100	Booking: When a reservation is available, a pop-up notification informs the user.

REQ_FUNC_110	Booking: According to the distance between the match location and the home city, two reservation types can be proposed.
REQ_FUNC_120	Booking: Reservation types are managed by the company.
REQ_FUNC_130	DELETED.
REQ_FUNC_140	Booking: The first reservation type is a round-trip bus travel on the same day and a match ticket => simple bus trip.
REQ_FUNC_150	Booking: The second reservation type is a round-trip bus travel with match ticket and a hotel reservation on the night of the match day => full bus trip.
REQ_FUNC_160	When full bus trip is available, simple bus trip is always available.
REQ_FUNC_170	Booking: Three types of match ticket are available: - VIP stands, - Front stands, - Turn stands.
REQ_FUNC_180	Booking: The default type of reservation is simple bus trip with turn stands.
REQ_FUNC_190	Booking: Payment is available after the user chose bus trip and ticket types.
REQ_FUNC_200	Booking: The payment page allows user to choose its credit card type, insert its card number, the expiration card date and the cryptogram.
REQ_FUNC_210	Booking: The card types authorized are Visa and MasterCard.
REQ_FUNC_220	My Trips: Ovalion must inform the user by a pop-up notification his bus status modification.
REQ_FUNC_230	My Trips: Ovalion must display all past and coming trips reserved by the user.
REQ_FUNC_240	My Trips: The user can cancel his travel 24 hours before the bus departure.
REQ_FUNC_250	My Team: Ovalion must display the ranking of all teams in the competition.
REQ_FUNC_260	My Team: Ovalion must display all results of previous matches (away and home matches).
REQ_FUNC_270	My Team: If "All Teams" is selected, results of all matches are displayed.
REQ_FUNC_280	My Team: Ovalion must display last club information.
REQ_FUNC_290	My Team: If "All Teams" is selected, information of all clubs are displayed.

b. IHM requirements

REQ_IHM_010	Deleted
REQ_IHM_020	Look and feel of the application is at the supplier discretion.
REQ_IHM_030	Parameter: A combo-box must be displayed on the first use of the application.
REQ_IHM_040	Parameter: The combo-box must be available at any moment in a dedicated tab.
REQ_IHM_050	Parameter: A menu must be available on the left part of the screen.
REQ_IHM_060	Parameter: The five categories must be separated in five separated tabs.
REQ_IHM_070	Parameter: Those tabs are available in the menu.
REQ_IHM_080	Parameter: The menu is hidden by default and can be display selecting the menu button: ☰
REQ_IHM_090	Parameter: When the menu is hidden, the application must follow this basis:

	Parameter: When the menu is displayed, the application must follow this basis:
REQ_IHM_100	
REQ_IHM_110	Parameter: The language of Ovalion must be French and English.
REQ_IHM_120	Parameter: The language can be changed at any moment in the Parameter tab.
REQ_IHM_130	Calendar: The calendar must distinguish away and home matches.
REQ_IHM_140	Calendar: Selecting a past match on the calendar opens a window which displays: - the match result, - the date - the location. Those main elements must be disposed this way on the window:
REQ_IHM_150	Calendar: Selecting a future match opens a window which displays: - two teams' logos and names, - the hour of the match, - the date of the match, - the location. Those main elements must be disposed this way on the window:

	  Host team name DD/MM/YY Guest team name Host team logo hh:mm Guest team logo location -
REQ_IHM_160	Calendar: If an away match with a reservation available is opened from the calendar, the pop-up displays: - the hour of the match, - the date of the match, - the location, - a push button "Reservation" which redirect the user to the reservation tab. Those main elements must be disposed this way on the window: Host team name DD/MM/YY Guest team name hh:mm location Réservation
REQ_IHM_170	Calendar: The format of a match result is "XX – YY" with: - XX is the result of the host team. If the team score is lower than 10, the format is X, not 0X. YY is the result of the guest team. If the team score is lower than 10, the format is Y, not 0Y.
REQ_IHM_180	Calendar: The score of the winner team is displayed in bold.
REQ_IHM_190	Calendar: If the supporter favourite team won, the full score is displayed in green.
REQ_IHM_200	Calendar: If the supporter favourite team loose, the full score is displayed in red.
REQ_IHM_210	- Calendar: If the match result is equality, the full score is displayed in grey.
REQ_IHM_220	Calendar: The calendar must be displayed via a list view.
REQ_IHM_230	Book: The reservation tab must contain: - A column which contains the bus trip type, displayed with exclusive radio buttons, - A second column which contains the ticket type, displayed with exclusive radio buttons, - A push button "Pay Trip", - A push button "Cancel Trip".
REQ_IHM_240	Book: Selecting the push button "Cancel Trip" cancels the operation and returns to the Calendar view.
REQ_IHM_250	Book: Selecting the push button "Pay Trip" opens a payment window which contains: - A combo box which contains "Visa" and "Mastercard", - A line edit which allows user to insert his card number (only numbers can be insert by user),

	- A line edit or a combo box which allows user to insert the card expiration date (only valid dates and valid expiration dates can be insert), - A line edit which allows user to insert the card cryptogram (only numbers can be insert by user), - A push button "Validate Payment", A push button "Cancel Payment".
REQ_IHM_260	Book: Selecting the push button "Cancel Payment" cancels the payment and return to the reservation tab.
REQ_IHM_270	Book: Selecting the push button "Validate Payment" displays the message "Payment validated".
REQ_IHM_280	My Trips: A summarize of each trip is displayed in this tab.
REQ_IHM_290	My Trips: A trip summarize contains the match date and the teams involved in the match.
REQ_IHM_300	My Trips: Selecting a trip expands the trip information.
REQ_IHM_310	My Trips: Trip information displays: - The concerned match, - The date and the hour (if available) of the match, - The location of the match, - The bus departure date and hour if available, - The hotel address and reservation date if available, - The bus return departure date and hour if available.
REQ_IHM_320	My Trips: On expanded information, if an event (bus departure, match etc…) is passed, the information must be displayed in italic font and coloured in dark grey.
REQ_IHM_330	My Trips: On expanded information, if an event (bus departure, match etc…) is not passed, the information must be displayed in normal font and coloured in black grey.
REQ_IHM_340	My Team: The title of each article is displayed in this tab.
REQ_IHM_350	My Teams: Selecting an article expands the article.
REQ_IHM_360	Parameter: The language of Ovalion must be French and English.
REQ_IHM_370	Parameter: The language can be changed at any moment in the Parameter tab.

4. Delivery conditions

The delivery package must contain the following documents:

- Documentary:
  - SAS (Software Architecture Specifications). This document must follow the template "Template – Software Architecture Specifications.docx" given by the company. It must contain an explanation of the provider understanding of the project, constraints and solutions proposed, global and detailed UML diagrams of the architecture proposition.
  - SQS (Software Qualification Specifications). This document must follow the template 'Template – Software Qualification Specifications.docx" given by the company. It must contain tests procedures to check the software. It consists in functional and unit tests. The document must also contain a traceability matrix which link the requirement id with the test id. The provider should write a first version of this document only from this request for proposal and before any work.

- o SQSA (Software Qualification Specifications Acceptance). This is the SQS document filled with results of the tests procedures.
- Code and binaries:
  - o Code. The application must be compatible on Android systems. Classes and functions must be commented with Doxygen format.
  - o Your repository name : T-MOB-Ovalion_$AcademicYear
- Tests:
  - o Tests code.
  - o A stub application. To allow the company to make some functional tests before deploying the solution, the provider must deliver an application which will stimulate the Ovalion solution.

5. Planning

The planning of this project consists of several deadlines, T0 is the beginning of the project:

Object	Week
Kick-Off	T0
Bootstrap	T0
Follow Up	T0 + 1 weeks
Follow Up	T0 + 3 weeks
Follow Up	T0 + 5 weeks
Delivery	T0 + 5 weeks
Pitch	T0 + 6 weeks

6. Evolutions

This is not mandatory but the company will appreciate if the provider you go further this project, adding functionalities which make the project more complex. Example: new functionalities etc…