

Component mini-specifications

1 Client

For the TravelDiary application, the client is user interface. It communicates with the application server via HTTP protocol and provides functionality of the application to the user in two ways described below.

1.1 Web client

Web client is user interface represented by web page. User is able to access it by all major web browsers. After successful authorization, user will be able to do all actions provided by the system to logged user.

1.2 Mobile client

Mobile client is application designed for portable devices such as smart-phones and tablets. This application provides the system's functionality as well as web client. Moreover, mobile client provides ability to store user's credentials, so he can log-in automatically, and also, when creating new place entry, user can fill the location using GPS in his device.

2 Access control

Access control component is responsible for user authorization and filtering unauthorized requests.

3 Request manager

Component called request manager is used for request processing and response generation. This component gives all necessary informations to the controller and receives data to be returned as response. Request manager handles get and post request parameters and decomposes the URL address.

4 Facebook

This component represents third party component – web application Facebook, which is used in system. It is used to download information about user's places from his account.

5 Facebook Place converter

Facebook place converters transform requests from system to request to Facebook, ensures right format, gets response from facebook and transforms them into system suitable format.

6 Google Maps

This component represents third party component – Google Maps, which is used in system and access map visualization in the system.

7 Google Places converter

Component similar to Facebook Place converter. It transforms information about places stored in

user's account on Google to places in Travel Diary.

8 Maps

Component Map encloses Google Maps convertor and Map manager in order to other components doesn't know about communication between Map manager, map convertor and google maps.

9 Google Maps convertor

Google Maps convertor converts transform requests from system to request to Google Maps API, ensures right format, gets response from Google maps and transforms them into system suitable format.

10 Map manager

Map manager allows to view map, show places and results in this map. It uses Google Maps, the application itself doesn't implement own maps.

11 Place Information

Place information keep all information about places, contains methods for creating, editing and removing this information.

12 Controller

Application core component. Manages operations, handles communication between other components. Catches input from user, invokes model changes and set relevant view for user.

13 Place forum

Component that ensures Forum functionality. It ensures forum view for display forum to user, by loading relevant information from database. Also allows management of forum like: topic creation, adding message, etc. and saves these changes to database. This component is part of Model, so it communicates with user through Controller component.

14 Database Adaptor

Component that collects database requirements of other components and pass them to Database Server component as an SQL query. Also returns responses from Database Server to relevant components. Basically takes query in inner format transfers it to SQL and transfer response from SQL back to required format and sends it back to source component.

15 Database Server

Standart SQL Database Server, that contains single relations databeses required by system. Allows Aplication Server to acess data through Database Adaptor(SQL).