

Travel agency

Project documentation

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I Project specification

The users of this application can be admins (the travel agency) or customers, depending on their role, the main specifications of the project would be: for the customer, they can view vacation packages and book them; for the admins, they can add or remove destinations, they can add or remove or edit packages according to a selected destination.

II Use-Case model

In this section the different types of users will be presented together with the use cases they introduce.

2.1 Users and stakeholders

Users of this application can be of two types: the customer and the administrator (the travel agency).

The administrator can add destinations to the agency or can definitely remove together with the packages offered in that destination, they can also add, remove and edit the packages of a specific destination.

The customer/the client can view the available packages issues, can visualize details about them such as price, they can also filter amongst them by either destination, price or period and they can book a vacation package. They can also register to the app and then log in.

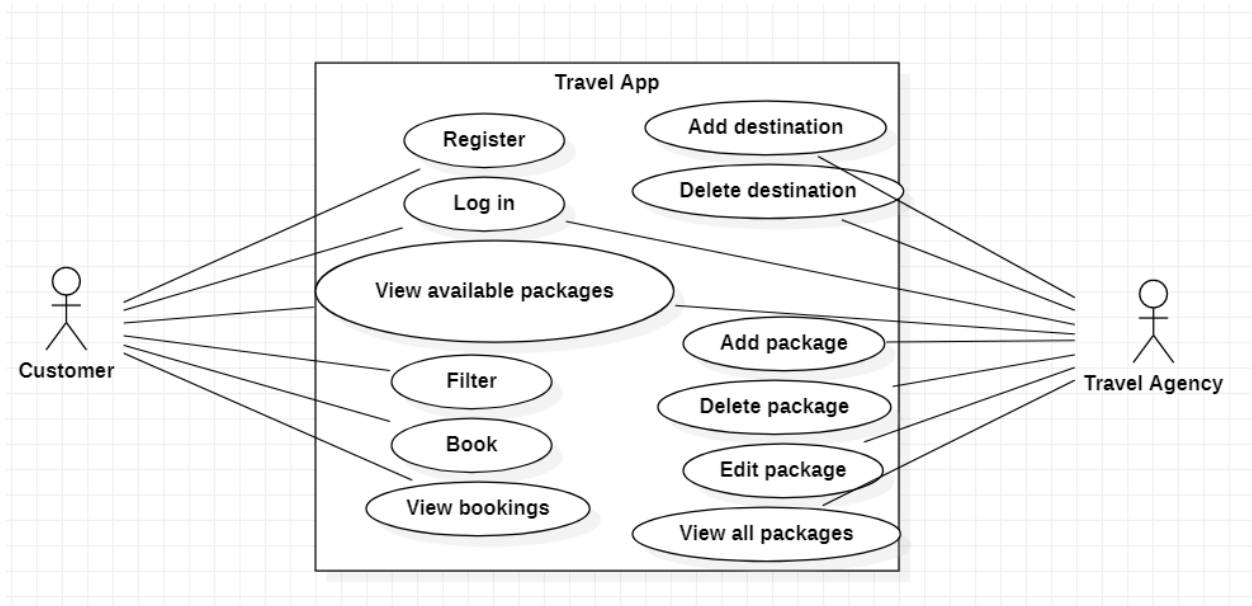
The stakeholders of this application can be the developers and the manager of that application, the travel agency that adds their products to this application, which is an online shop. The competition could be other online travelling agencies or other face to face agencies, that can be negatively impacted by the lack of customers that prefer the commodity of the online shop.

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2.2 UML Use-Case diagram



III Architectural design

I decided to use a Layered Architecture as can be seen from the UML diagrams. A Layered Architecture represents the organization of the project structure into four main categories/layers:

- Presentation layer
- Business layer
- Persistence layer
- Data layer

Each of the layers contains objects related to the particular concern it represents and has a special purpose and calls functions of the layers below it.

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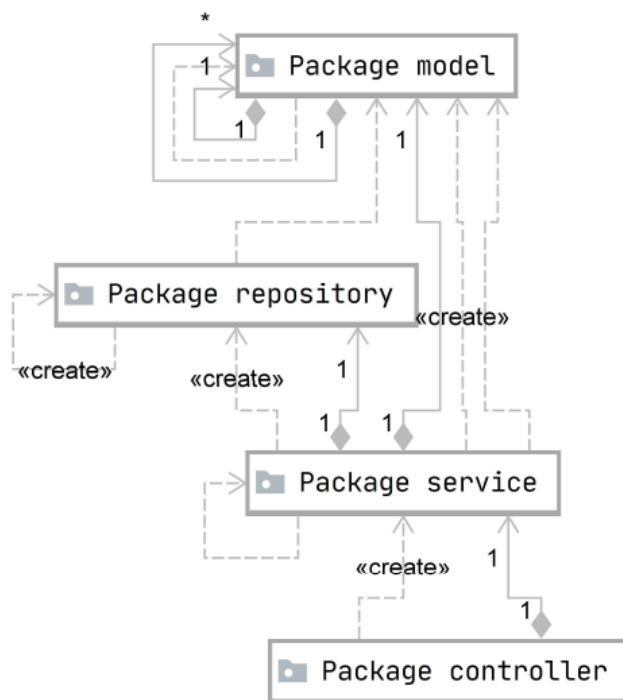


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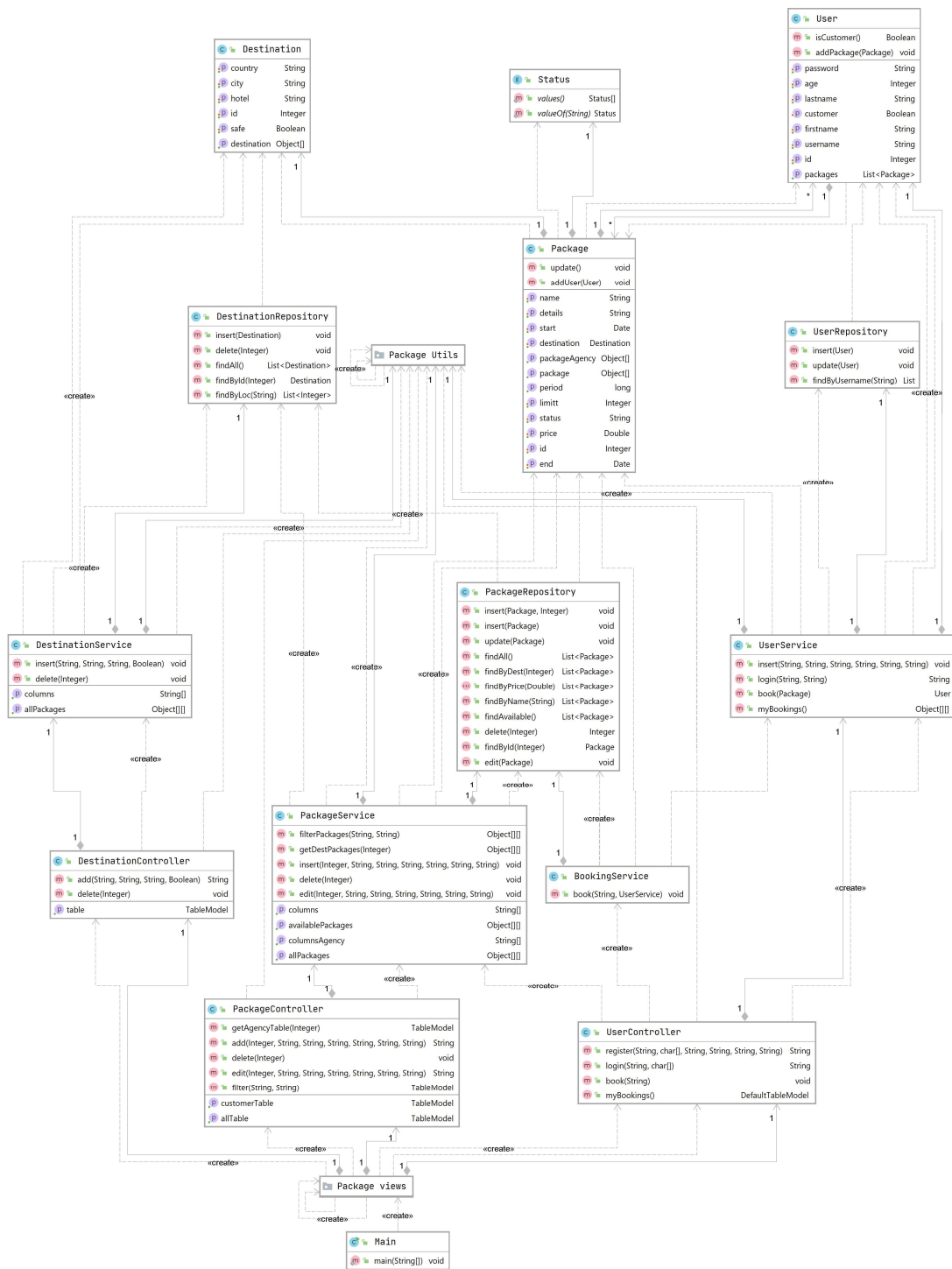
3.1 Conceptual architecture

The application is a desktop application written in Java + Java/Swing. It uses a relational database as storage (MySQL). The Data Access Layer is implemented using Hibernate.

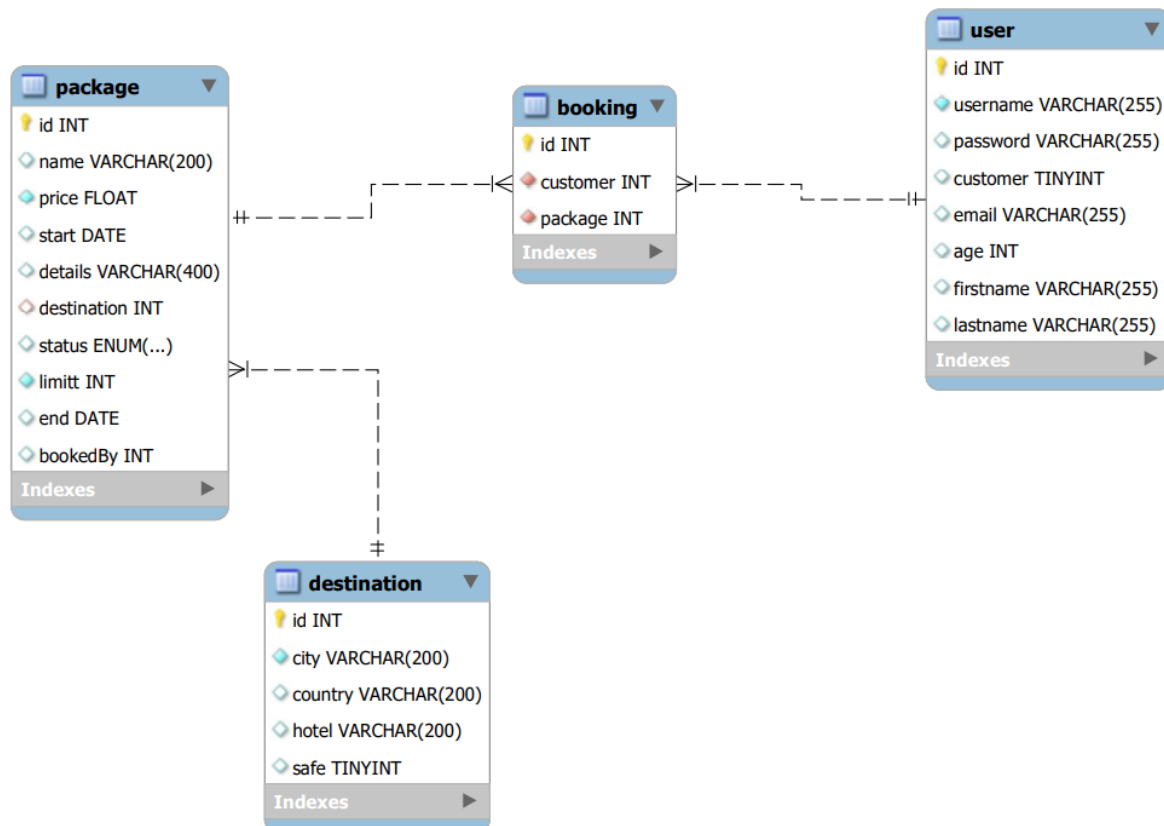
3.2 Package diagram



3.3 Class diagram



3.4 Database (E-R/Data model) diagram



IV Bibliography

- Software Design laboratories

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