Project plan

Individual Track

Airline Administration System

Bsky

Version table

Author:	Florin Deleanu 3784711	Revision Date
	Version 1	15 March 2021
	Version 2	8 April 2021
	Version 3	17 May 2021

Table of Contents

Requirements

- A use-case that requires user authentication with the system (e.g. logging in as a user)
- A use-case that requires user authorization (e.g. delegating to a third person the right to edit some content on behalf of a user)
- A use-case where the user retrieves detailed data about a database object (e.g. a specific invoice)
- A use-case where the user retrieves aggregated data (e.g. total sales in the last quarter)
- A use-case where the user searches using filters (e.g. get list of invoices above EUR100,00 in the past 5 days)
- A use-case where the user modifies an existing database object
- A use-case where the user deletes an existing database object
- A use-case where the user creates a new database object
- A report on the security of your application (See The OWASP top 10)
- A report on the performance of your application

Client

The client will be an airline company which owns multiple airplanes and needs a system for keeping track their flight, ticket scheduling and passenger administration

Bsky

Developer

The developer Florin Deleanu, will create a software web application which will allow the business to execute their required tasks.

Project goal

The application will keep track of the passenger locations, allow passengers to reserve and manage their tickets, as well as see flights and information about the airplanes and pilots.

Aside from the basic requirements an online payment system could be implemented.

The goal of the application is to create a fully functioning airline administration system

User stories

Stories will be rated on terms of importance (low-L,medium-M,High-H with numbers 2-5 to further divide the importance in each category) and in terms of difficulty (1-10 One will be the base difficulty point, 10 would be 10x as difficult)

US1- Priority H / Difficulty 4: As a user I can register and log in so that I gain access to the website to manage my tickets

Acceptance criteria:

- Password must be 8 characters long and contain a number
- Having an account and access to my details
- Able to log in using the credentials

US2- Priority H / Difficulty 4: As an admin I can view flights in the database and the planes

- Seeing overview of flights
- Seeing information about the planes
- Deleting a flight

Bsky

US2.1- Priority M / Difficulty 4: As an admin I can modify flight paths and scheduling using a special page in case a mistake is made

- Seeing an overview plane's schedules
- Being able to change the data of selected plane

US3- Priority H / Difficulty 3: As a user I can search for a specific flight in the database

- Typing the source/destination of the flight in a text box and seeing its detailed information after searching

US4- Priority M / Difficulty 5: As a user I can filter for flights based on a criteria

- Seeing all flights from just an origin(no destination or date)
- Seeing all flights from origin to a destination(without date)
- Seeing all flights from origin to a destination on a specific date

US5- Priority M / Difficulty 4: As a user I can order the flights by different criteria's

- Sorting items based on name/price/date/duration

US6- Priority H / Difficulty 6: As a user I can reserve tickets and modify before paying

- Having a form to add all data necessary for an flight
- Seeing detailed information about the ticket and modifying it
- Clicking a button to cancel the schedule

US6.1- Priority L / Difficulty 9: As a user I can see all the available seats and choose the one I like the most, as well as the price for each seat

- Seeing an overview of available and occupied seats
- Seeing the price of the seats
- Choosing a seat to book

US7- Priority L / Difficulty 5: As a user I want to receive a notification when my flight is approaching

- See upcoming flights and their due date

US8 Priority M / Difficulty 4: As a user I want to receive an invoice detailing my flight

Bsky

- Receiving a report with the necessary information

US9 Priority L / Difficulty 4: As a user I can view information about the plane I will ride

- Seeing an overview of the plane

Test plan

For making sure my application maintains a high standard of quality, I will use unit tests to make sure the methods always work. After finishing the features I requested by the client, I will also test the acceptance criteria and make a report based on the results.