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| Project Name:  Airline Ticketing System  Project Charter® |

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# Background/Project purpose or justification

An up-and-coming airline was using a basic web application template that they outsourced for their website but in order to be seen as a more reputable company they decided to hire an in-house team to create a new web application for them. They want the new web application to allow users to book and cancel flights just like the last one they had did. However, they also want to add more options for the user including the option for users to reschedule their flights. Having a web application built just for your company is seen as a plus as it can be updated over time to meet the company’s needs.

# Goals

## Goals

| Goal | Description |
| --- | --- |
| Database Creation | The creation of two distinct databases |
| Administrative Functions | Allow a user to add tickets, delete tickets, update tickets, refund tickets, or reschedule tickets |
| Ticket Display | Create a page that displays the ticket identically to how it looks physically |
| Bug Free | Everything in the system works as intended |

## Milestones

| Schedule | Description |
| --- | --- |
| Nov 2nd | Webpage setup but not connected to database |
| Nov 10th | Sql database set up with proper information |
| Nov 15th | First full prototype is ready to test and debug |
| Nov 28th | Application is complete and ready for presentation |

# Project product description

We are creating an airline ticketing management system. This system will create tickets for our customers and store these tickets in a database. It will also allow for the management of these tickets. The project’s scope lies only in the ticketing system, as our online storefront is still working as intended.

When a ticket is created in this system, the ticket’s information will be sent to the upcoming flights database. This database holds all the tickets for our upcoming flights. When a flight takes off, we will automatically move the ticket to the previous flights database. After a month of being held in the previous flights database, the ticket will be removed.

The main page of our system will have links to two pages: the upcoming flights page and the previous flights page. These pages are similar in design, each containing a table showing the tickets in their respective databases. They will also allow for similar administrative functions.

The upcoming flights page will have administrative operations for adding tickets, deleting tickets, updating tickets, rebooking tickets, and displaying tickets. The adding tickets page will allow the addition of new tickets to the database with the help of forms. The delete ticket button will remove the specific ticket from the database. The update ticket button will lead to the update ticket page, which will contain editable forms with the ticket’s information preloaded in. The rebook ticket button will create a new ticket in the database while prefilling the customer’s information; after confirming the rebook, the system will add the new ticket and delete the old one. The display ticket button will show the selected ticket in the ticket’s proper format, mimicking the printed version.

The previous flights page will have the same operations as the upcoming flights page with the exception of rebooking tickets and the addition of refunding tickets. Refunding a ticket will send a “refund message” in the system and will change the cost of the ticket in the database to zero. Due to the scope of this project, we will be sending the call to refund to a function that only returns a confirmation notice.

# Delivery units

## Delivery units/services

| Delivery unit | Description/Comment |
| --- | --- |
| Project Charter | The approval of the project charter |
| Cite map/Website design | The structure of the website and basic design of website |
| Functional Requirements Document | Document outlining functional and non-functional requirements |
| Database Schema | Create the upcoming flights and previous flights pages and connect them to the appropriate database |
| Source Code | All the code files developed for the website |
| Final Project Report | Final report summarizing the projects development process |

# Project success criteria

| Project success criteria |
| --- |
| The website works on full size screens and on smaller resolution (follows responsive design) |
| Database can store data provided by users and send required information when required |
| The website works without flaw |
| If we exceed the project’s budget, it can’t be over 15% |
| We cannot go one month over schedule |

# High-level risks

| Risk | Possible impacts on the project |
| --- | --- |
| Security Leak | Legal repercussions, loss of customers |
| Functionality Errors | Some of the options do not work as expected, could keep administrators from working |
| Implementation Problems | Implementation takes longer than expected, delaying the project |
| Malicious Attacks | Breaking into an unsecured portion of the application could cause a security leak |

# Key stakeholders

| Name | Role |
| --- | --- |
| Lukasz Lubiak | Front End + Database Creation |
| Ryan van de Ven | Front End + Backend (Page Creation + Add ticket page) |
| Aviel San Agustin | Backend (Update page + Delete button + Rebook page) |
| Nick Demerse | Backend (Display tickets page + Refund page) |
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|  |  |
|  |  |
|  |  |

# 

# Project startup

The project is deemed started with the following signatures:

|  | Instructor | Communications Officer | Project manager |
| --- | --- | --- | --- |
| Signature |  |  |  |
| Name |  |  |  |
| Date |  |  |  |

# Project end

**Planned project end:**

|  |
| --- |

## Signatures for release

The project manager is released with the signatures provided here following the project closing phase:

|  | Instructor | Communications Officer | Project manager |
| --- | --- | --- | --- |
| Signature |  |  |  |
| Name |  |  |  |
| Date |  |  |  |