Purpose

The system design is documented in the System Design Document (SDD). It describes additional design goals set by the software architect, the subsystem decomposition (with UML class diagrams), hardware/software mapping (with UML deployment diagrams), data management, access control, control flow mechanisms, and boundary conditions. The SDD serves as the binding reference document when architecture-level decisions need to be revisited.

Audience

The audience for the SDD includes the system architect and the object designers as well as the project manager.

Table of Contents

Document History

Rev.	Author	Date	Changes
	Harry	06.07	Sections 1-3 rough Draft
	Harry	13.07	Sections 4-6 rough Draft
	Harry	20.07	Corrections and Optimization

1. Introduction

1.1 Overview

The software is split into Client and Server Side. The Client side consists of the different View Components of the functionalities provided and multiple Controller Components.
The server side mainly consists of controllers for Flight Information, Destination Information, Feedback and Service Calls.

2. Design Goals

Since this was a mere project simulation, we chose usability over extensibility since there is no need to extend an application after the deadline. We also chose functionality over usability, since the goal to implement all the required functionality was more important to use, than usability at first. Obviously, once all functionality was implemented, we focused on making the application more usable. Between cost and robustness, we focused on cost since the given time was not enough to be able to focus on making the application robust.

3. Subsystem decomposition

The Request Controller is the most important Component in our architecture. It provides:

- Flight Notification Service: Notifications about Flight delays and cancellations
- Flight Search and Selection Service: Provides the search function for flights and the selection of Flights to be added to the trip list
- Destination Search and Select Service: Provides the search function for destinations and the selection of Destinations to be added to the favorites list
- Feedback Service: Provides the Feedback functions
- Service Call Service: Provides the Service Call functions

They are used by multiple controllers we have listed in the earlier sections, which all provide further services, such as the Data Supply for the POI's, as well as the User Choice Storage, to save the users favorites and survey answers.

4. Persistent data management

The system is based on one database, which consists of multiple tables. Within the database, we store the different flights, the information regarding them, the destination information as well as the points of interests.

5. Access control and security

Since this was a mere student mock project, there were no security measures etc. implemented.

6. Boundary conditions

To access the app, you first need to run the Application inside an IDE of your choice. Then you can access the program via the link “localhost:8080” in a web-browser of your choice. Once the app is not used anymore, it can be shut down within the IDE. If the system fails, one should simply restart the system.