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# Introduction

Provide a short introduction to your application. For example, what features and functionality does it provide at a high-level? Who will use the application?

# Database Design

## Entity-Relational Diagram

Present an ER Diagram illustrating all your database tables and their relationships. You can utilize tools like MySQL Workbench or free https://drawsql.app/ for automatic generation of an ER Digram from your MySQL code.

## Third Normal Form Compliance

Provide a justification for 3NF compliance of all your database tables. That is, justify that they have no group of values for an attribute, no partial dependencies, and no transitive dependencies.

# Java Class Design

## Unified Modeling Language Diagram

Display a Unified Modeling Language (UML) diagram to represent all your Java classes and their relationships. The PlantUML plugin for Eclipse can be employed to automatically generate a UML diagram from your Java code.

# Overall System Design

## Mapping

Describe the correspondence between database tables and Java classes, include a briefly rationale. For example, identify which Java class stores the data of each database table, and why?

## Synchronization

Describe how you synchronize your Java data with the data on the database server, along with a breif justification. For example, outlining when to load which data from the database server to Java? when to save which data from Java to the database server?

# Testing

Describe how you test each component and the overall application.

# Bonus Features (If any)

Describe each bonus feature that you have implemented and how LAs can use these features.