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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?

## Post Window

Describe how you get all posts visible to the current user. There are several different methods. For example, one method involves a single well-designed join select statement to directly retrieve these posts from the database server. Alternatively, one could first use a select statement to retrieve the list of users whose posts are visible to the current user, followed by one or more select statements to retrieve their posts from 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.