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| LocationGuru Solutions |
| Interview Assignment |
| Software Engineer Trainee [Server-Side Development] |

Table of Contents

[1. Scope 1](#_Toc504645361)

[2. Problem Statement 1](#_Toc504645362)

[3. Rules 1](#_Toc504645363)

# Scope

Scope of this document is to describe the assignment goals for trainee software engineer to qualify for technical round.

# Problem Statement

The candidate is expected to develop a small application to help establish the baseline for their technical proficiency. The problem statement is as below –

Create a **maven** or **gradle** based web application to demonstrate the user role based ‘view’ selection. Upon launching of the application, the user should be redirected to the login page. The login page will accept credentials for 3 types of users, namely **Administrator, Manager and Employee**. The login details should be stored in an appropriate database table. After user logs in successfully, the application should be redirected to the home screen corresponding to the user. E.g. Administrator should be redirected to administrator home page i.e. **http://localhost/admin-home** and likewise for other users. The home screen of each user will display a simple welcome message e.g. **Welcome, <First Name> <Last Name>**

The application should adhere to following requirements –

1. Use **Spring Framework 4.3 (Compulsory) and Spring Boot (Optional)** for Dependency Injection.
2. Either **XML** or **Java** configuration will work.
3. Use any database of your choice and **Hibernate 5.2** as an ORM framework.
4. Use appropriate table schema.
5. The application should be deployable in **Tomcat 8.5** using **Java 8**.

# Rules

This assignment is bound by following rules –

1. This is an individual assignment and not to be done in group.
2. All the requirements mentioned in the problem statement are mandatory.
3. Use of any IDE is permitted.
4. Use of internet is allowed for research purposes only.
5. The submitted source should be in standard maven or gradle structure.
6. The source should also contain appropriate database script with default user data.
7. Try to avoid third party help for development of the assignment as the candidate is expected to explain the design decisions taken, during the interview.

Best of luck!