<Name of project>

TECHNICAL DESIGN DOCUMENT

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| **Author** | *[Author name]* |
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# SECTION 1: INTRODUCTION

## Purpose

*[Provide a brief overview of the application and its purpose]*

## Terminology

*[Identify the technical terms used in this document; list the name and a brief definition in a table or matrix]*

## User Personas

*[Identify the core users of the proposed solution]*

## User Stories

*[Identify the user stories, based on the above personas]*

## Work Estimations

*[Given the above user stories, identify the appropriate story points/time estimations]*

# SECTION 2: PROCESS DESIGN

## 2.1. Sitemap

*[Create a sitemap for the proposed website]*

## 2.2. Prototypes

*[Make sure the prototypes cover every page/dialog/message in the proposed solution)*

## 2.3. ORD (Object Relational Diagram(s)

*[Create an ORD based on the proposed business rules]*

## 2.4. NoSQL Data Structure

*[Covert the above NoSQL Document Diagram into a NoSQL Data Structure (JSON data)]*

# SECTION 3: FUNCTIONAL DESIGN

## 3.1. Overview of the Design

[This section will cover what you are envisioning the system will do, specifically any minimum / maximum value of a field, navigation, error handling, and logging. If there are exceptions, explain how they are handled and under what circumstances they will be generated/thrown]

## 3.2. Functional Design

[This section is a list of the design definitions for the requirements in the BRD]

|  |  |
| --- | --- |
| **Requirement #** | **Design Definition** |
| R – 5 | Sign In Page  Node.js API:   * Employees: * Function: findEmployeeById * Route: /api/employees/:empId   + Example: localhost:3000/api/employees/1007 * Swagger: localhost:3000/api-docs   SoapUI Unit Tests:   * findEmployeeById   Angular:   * signin.component.html * signin.component.css * signin.component.ts * security.service.ts * Route: localhost:4200/security/signin |

## 3.3. Feedback/Comments

[This section is for any addition comments/feedback that will help business and other team members better understand the solution you built]

# SECTION 4: QA TESTING

## 4.1. QA Test Plan

*[Weekly Test Cases]*

## 4.2. Unit Tests

*[Images of SoapUI Unit Tests]*

# SECTION 4: REFERENCES

*[APA Reference List]*