**System Requirements**

**<Project Code>:<Project Name>**

**<team member names & ids>**

|  |  |
| --- | --- |
| **Student ID** | **Name** |
|  |  |
|  |  |
|  |  |
|  |  |
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**Table of Contents**

[1. Introduction 3](#_Toc113443597)

[2. System Actors 4](#_Toc113443598)

[3. Functional Requirements 5](#_Toc113443599)

[4. Non-functional Requirements / Quality Attributes 6](#_Toc113443600)

[5. Security Requirements 7](#_Toc113443601)

[6. Who Did What? 8](#_Toc113443602)

[7. Review checklist 8](#_Toc113443603)

# Introduction

<Give an overview of the project here. The overview must highlight the overall objectives of the project and its potential users.>

# System Actors

<List down the actor names and give a 2-3 lines description of the role of each actor>

|  |  |
| --- | --- |
| **Actor Name** | **Description** |
|  |  |
|  |  |
|  |  |
|  |  |

# Functional Requirements

<Write system requirements from users’ (actors) perspective. Actor names have been highlighted in the sample requirements below. You may group requirements according to actors or modules>

|  |  |
| --- | --- |
| **Requirements** | |
| **Sr#** | **Requirement** |
| 1 | As an engineer, I want to enter my work hours so I can I get paid on time |
| 2 | As a project manager, I want to approve time sheets so employees get paid |
| 3 | As a finance manager, I want to perform payroll functions |
| 4 | As an IT manager, I want to create new accounts so we can add newly hired employees |
| 6 |  |

# Non-functional Requirements / Quality Attributes

<Requirements must be testable>

<Security requirements fall in the category of “Non-functional requirements”; however, you need to list them separately in the section **Security Requirements** later in this document.>

|  |  |
| --- | --- |
| **Sr#** | **Requirements** |
| 1 | The system should not utilize more than 1 GB of memory at any time during its execution.  <Do NOT write “*The system should utilize minimal memory*”> |
| 2 | The system should not fail more than 3 times every 24 hours. In case of a failure, the system should restore to normal operations within 5 minutes of a failure.  <Do NOT write “*The system should not fail often*”> |
| 3 |  |
| 4 |  |

# Security Requirements

< Go through OWASP top 10 security risks (<https://owasp.org/www-project-top-ten/>).

1. Select **3 security risks** that you think are top threats for your system. While doing this, carefully consider the information/functionality that is most vulnerable from security perspective in the context of your project.
2. For each security risk (identified above), identify **potential losses**  (e.g., financial loss, total business loss, litigation etc.) if you do not take necessary measures to address the above security risks.
3. Identify the **controls** (e.g., input validation, audit logs, multi-factor authentication, user roles etc.) that should be implemented in your system in order to address the above security risks.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr#** | **Security Risks** | **Potential Losses** | **Controls** |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

# Who Did What?

|  |  |
| --- | --- |
| **Name of the Team Member** | **Tasks done** |
|  |  |
|  |  |
|  |  |
|  |  |

# Review checklist

Before submission of this deliverable, the team must perform an internal review. Each team member will review one or more sections of the deliverable.

|  |  |
| --- | --- |
| **Section** **Title** | **Reviewer Name(s)** |
| Introduction |  |
| Actors |  |
| Functional Requirements |  |
| Non-functional requirements |  |
| Security Requirements |  |