

## Software Design Document Template

Project Name:	Team ID:
Team Members:	Mentor(s):

### Instructions:

- i) You must explain all the given sections clearly and concisely.
- ii) You must fill in the basic information about your projects such as Project Name, Team Members, Team ID, and Mentor(s).
- iii) Make sure to consider the checklist of the Design phase provided in the Security by Design document.
- iv) The length of the document should be 4 to 8 pages.

### 1. Introduction

*(The **brief overview** of your application.)*

### 2. Functional/Non Functional Requirements

*(This section is **mandatory for those teams who have changed their project requirements** for some genuine reasons in consultation with their mentors and they have not mentioned these requirements in the Requirement Analysis document).*

### 3. Architectural Design

*(Create diagrams to depict a high-level impression of your system using UML diagrams that should include Use case, Class, Activity, and Data flow diagrams (at least one diagram for each category).*

*The diagrams can be drawn using online tools, i.e. draw.io (free tool), etc.*

*Write the motivation for all your UML diagrams to highlight the project features and requirements.*

*This section aims to understand the system and its basic components, how the components interact with each other, data repositories, security requirements in design such as trust boundaries, input/output points, swapping/updating firmware for fixing bugs, and adding new features to the product, etc.).*

### 4. Product User Interface

*(In this section, you should **create illustrations using Wireframing tools** (Pencil Project, Mockplus, etc.), based on the Software Requirement Specification (SRS) of your application, **for example**, the menus required for the interface, buttons, and its tasks (Toolbar), any other functionality like events, sub-events, controls, status bar, etc.)*

**5. Prevention/Mitigation Criteria (Security Controls)**

*(In this section, you should **specify the criteria to avoid/ remove the risks** identified in the design.)*

**6. The cost involved (if any):**

*(This section is used to mention the **cost involved** to implement the necessary security controls for your application.)*

**7. Conclusion:**

*(You should give the **concluding remarks** of your document.)*

**Reference:**

*(Utilize this section to mention the **research papers/articles** you referred for the document.)*