Technical Documents for Software Engineering

* Requirements Analysis

The requirements analysis is a technical document written for engineering and software development projects. This document should contain the data storage requirements, an investigation into the requirements of the application that is being designed and what the expected outcome is.

* Software Specification/System Design

This document includes, diagrams of the system model, data objects and functions involved in the software or software services being developed or maintained. It is important to understand the full system requirements in order to make it easier for members of the team to effectively work together and reduce fallback.

* Documentation
  + *Database Design*

This document includes the data requirements, the choice of database, the database design and implementation of the database and what is being accessed by users or admins.

* + *Websocket Services*

This document includes the requirements of the push and socket services required for the applications being developed if at all.

* + *System Environment*

This document contains information about the system in which the application is developed in, such as what the system requires in order to make the software or services work correctly, this includes details about security, services, packages, network information and how to setup the system for redeployment.

* + *Web/Application Interface*

This document should specify the user interface requirements, the views of the database which the users can access and what web technologies and frameworks are to be used.

* + *Mobile Application Development*

This document should include design and data requirements for the mobile application if the software requirements specify mobile and a necessary component. It is important to recognise if the target market for the software services and applications that your want to sell to your customers are going to need additional features and flexibility which can only be achieved with mobile. The following are a few example which may reflect the mentioned criteria:

* + - Notifications
    - Web View
    - Cross Platform compatibility
    - Sensors
    - Cloud services
  + *Hardware Specification*

This document should include the application architecture and blueprint requirements, choice of microprocessors and components needed to fulfil the requirements analysis.