High-Level Solution Design Document Template

Project shop software management

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*IMPORTANT!*

**Note 1:** While a lot of effort has been put into this document to make it as generic as possible, you will inevitably find yourself adding additional sections or removing irrelevant ones, and that is perfectly fine.

**Note 2:** Make sure to read [the article](https://softwaredominos.com/home/software-design-development-articles/high-level-solution-design-documents-what-is-it-and-when-do-you-need-one/) on documenting a solution design before attempting to use this document. Reading and understanding the article contents will allow you to achieve the intended purpose from documenting a good solution design.

**Note 3:** Make sure to use your company’s template if you have one.

# Overview or Introduction

* Software application which performs following activity,
  + Inventory management using item tagging/bar code
  + Billing details maintain
  + Purchasing
  + Sale
  + Expenditure
  + Landing/borrowing
  + Time locking system(Read allow/ write barred)
* Need to develop web based application which stores data on database.
* Later data can be process to perform AI-ML Ops.

# Requirement Summary

|  |  |  |
| --- | --- | --- |
| No | Requirement | Comments |
| 1 | Need to develop very basic application using python or java for user interface |  |
| 2 | Common Database |  |
| 3 | Common Git code base |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Detail on inventory management,

Manual process attach bar code to each item,

Schema structure to make entry for each item via barcode.

{}

Database to maintain schemas

Display inventory information on portal,

# Assumptions and Prerequisites

* ~~This is an integral part of the design process. Its purpose is to ensure that everybody is clear on the foundations of the design.~~
* ~~It will also allow an early assessment of whether these assumptions are valid, acceptable, or require a review.~~

# [High-Level Design](https://softwaredominos.com/home/software-design-development-articles/high-level-solution-design-documents-what-is-it-and-when-do-you-need-one/)

* ~~This section aims to provide process flow updates and information pathway changes using diagrams, tables, and other visualizations.~~
* ~~Typically, also addresses integration issues with other systems.~~

## Architectural Plan

* ~~All the major components of the IT solution~~
* ~~How they fit in the overall IT ecosystem, which we refer to as the context~~
* ~~The different connections that help integrate these components together~~

## Application Modules

~~Includes the following:~~

* ~~Core components~~
* ~~User interfaces and layers~~
* ~~The database layer~~
* ~~Business logic modules~~
* ~~Licensed components~~
* ~~APIs and external connections~~

## Transactions and User Flows

* ~~The Transactions and User Flows section documents all necessary interactions between the user and the system.~~
* ~~These interactions describe the business processes implemented in the system.~~

# Out-of-scope

* ~~Essential for a mutual understanding of what will not be covered in the current project.~~

# Appendices

* ~~Additional information that could be too detailed or not strictly relevant to the topics discussed~~
* ~~It can be presented for completeness and clarity.~~

# Queries/ clarification

* How barcode generation is happening, is it via application or outside scope of app.