**Aim**

We aim to develop a web based application to facilitate E-Pharmacy. We aim to make this app as a solution to the problem of unavailability of medicines when people need it the most. Through this system, we aim to get medicines delivered to the person’s house in a short time from an authentic licensed Pharmacy.

**Objective**

There are multiple objectives of this application. They are as follows:

* To provide delivery of medicines through online ordering
* Scheduling regular deliveries of medicines on subscription
* A person can avail the Emergency Delivery facility, where his order will be prioritised.
* Local Pharmacies can register with the website by providing proof of authentication and proper licenses.
* Feedback and rating from the customers can help improve the system and make it more efficient

**Process Model**

The process model chosen for the project is- V and V (Validation and Verification)

**V-Shaped Steps**

 Project and Requirements Planning – allocate resources

 Product Requirements and Specification Analysis – complete specification of the

software system

 Architecture or High-Level Design – defines how software functions fulfill the design

 Detailed Design – develop algorithms for each architectural component

 Production, operation and maintenance – provide for enhancement and corrections

 System and acceptance testing – check the entire software system in its environment

 Integration and Testing – check that modules interconnect correctly

 Unit testing – check that each module acts as expected

 Coding – transform algorithms into software

**Reasons for choosing V shaped model**

 Emphasize planning for verification and validation of the product in early stages of product development

 Each deliverable must be testable

 Project management can track progress by milestones

 Easy to use

The V-shaped model let’s planning of development and testing simultaneously along with detailed documentation of the software, which would be really effective and time efficient.

Since the Objectives and Requirements are very clear in our project of E-Pharmacy, we choose the V-shaped process model to be used as we can very well define the test cases and know the outcome of our implemented part

E-Pharmacy Project

Software Requirements Specification

Version: 1.0

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* **Work Breakdown**
* 1.Login Page

1.1 Sign In

* 1.1.1 Authorization

1.1.2 Security

* 1.2Sign Up

1.2.1Validation

1.2.2Add Record to Table

1. Catalogue with Search
   1. Search Module

2.1.1Filter Search

* + 1. By Name
    2. By Vendor
  1. Updating Table
  2. Add/Delete Item
     1. Authorization

1. Pharmacist Profile
   1. Medicines
   2. Locality Covered
2. Orders
   1. Tracking
   2. Cancellation
      1. Refund Status

GANTT chart 

PERT chart



Timeline



**Requirements:**

**1. Functional Requirements:**

1. Patient should be able to check medicine availability
2. Patient should be able to order medicines as per their requirement
3. Pharmacist must provide stock details of all medicines which can be delivered or are available in the pharmacy
4. Pharmacist must provide details of medicines which are available for delivery
5. Billing user to bill based on all transactions done and keep a track of the same
6. Scheduling preordering of medicines at fixed intervals
7. Customer feedback and rating

**2. Non-functional Requirements**

* 1. User-friendly UI for easy interface
  2. 24X7 availability
  3. Flexible service based architecture for future extension
  4. Execution qualities such as security, which are observable at run time.
  5. Better component design to get better result at peak time.

**Stake Holders**

Stakeholders are those persons or parties who have a stated or implied interest in the software.

**1. Developers:**

Those involved in developing the web portal

1. **Designer:**

Involved in designing the user interface/ user experience

1. **Programmer:**

Does the back-end coding of the web portal

1. **Tester:**

Tests and analyzes the software and checks if it meets user requirements

**2. Users:**

* 1. **Customers:**

Those who wish to use the software for purchasing medicines

* 1. **Pharmacists:**

Registered pharmacists who are validated by the administrator for selling of medicines

* 1. **Administrator:**

Overall supervisor of the software and of the customer-pharmacist interaction, authenticates pharmacist

**Use Case Diagram**

