UNIVERSITY OF GLOBAL VILLAGE (UGV)

THE UNIVERSITY FOR HI-TECH AND HUMANITY

Project Name: Blood Bank Management System

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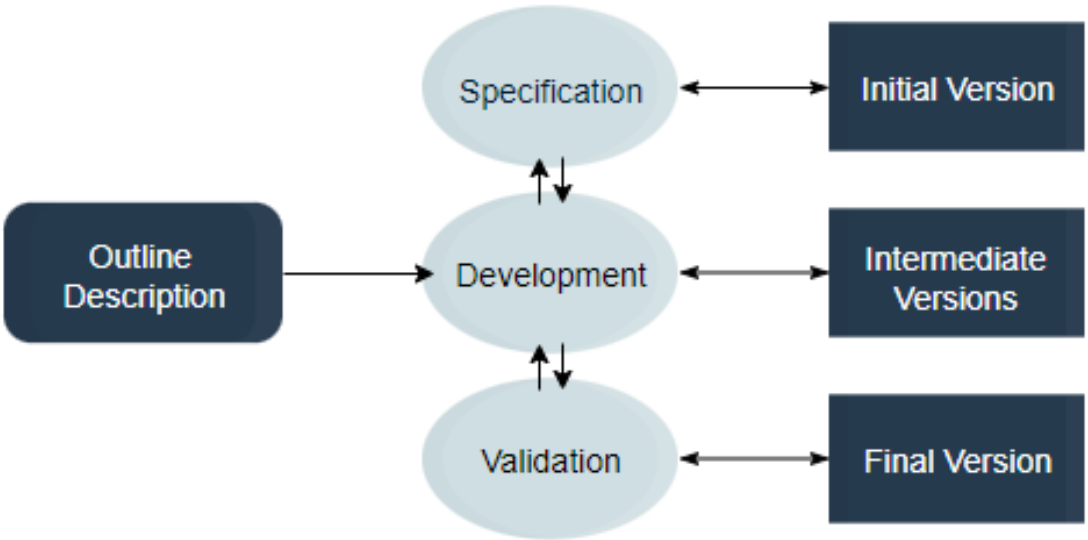
INTRODUCTION

A blood bank management system is an online software system that helps in managing various blood banks in a better way. This project gives information about various blood deposits available along with associated details. These details include blood type, storage area, and date of storage. These details help in maintaining and monitoring the blood deposits. The project is an online system that allows checking whether required blood deposits of a particular group are available in the blood bank. Moreover, the system also has added features such as patient names and contacts, blood booking, and even the need for certain blood groups posted on the website to find available donors for a blood emergency. This online system is developed on the C++ platform and supported by the SQL database to store blood and user-specific details.

PROCESS MODEL

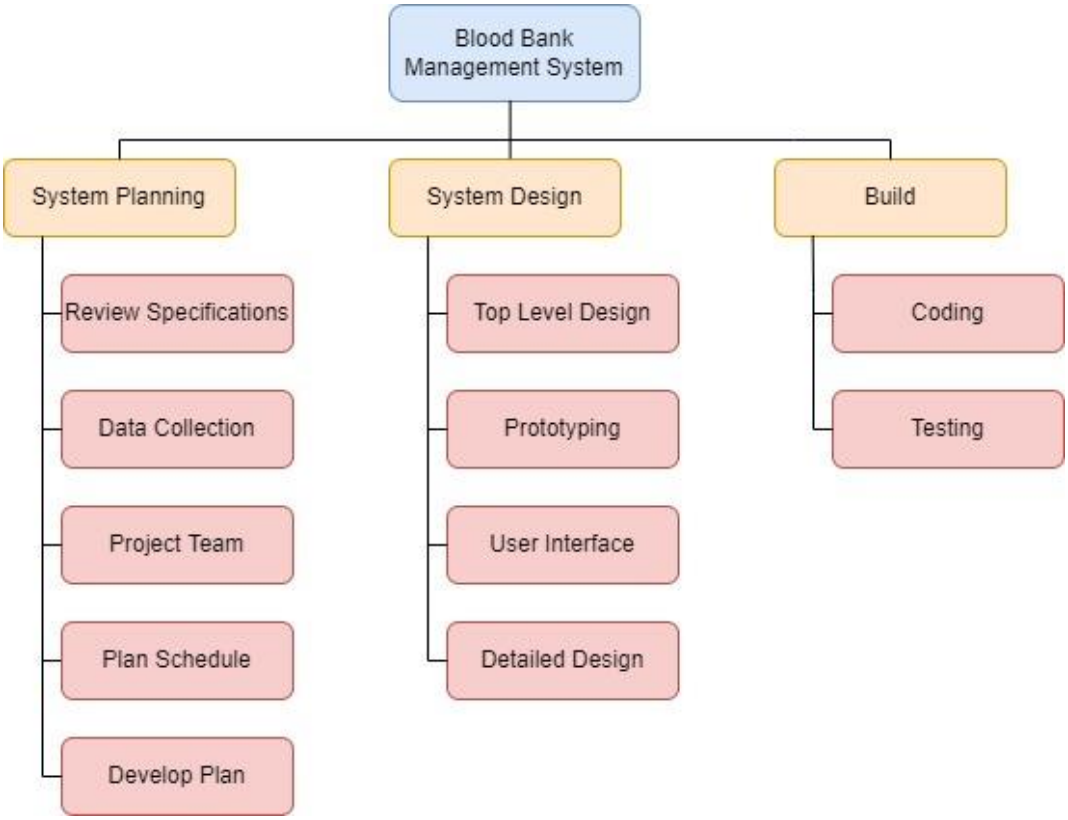
For our Blood Bank Management Project we Select the incremental model. Because the incremental model divides the system's functionality into small increments that are delivered one after the other in quick succession. The most important functionality is implemented in the initial increments. The subsequent increments expand on the previous ones until everything has been updated and implemented. Incremental development is based on developing an initial implementation, exposing it to user feedback, and evolving it through new versions. The process' activities are interwoven by feedback.

The incremental model lets stakeholders and developers see results with the first increment. If the stakeholders don't like anything, everyone finds out a lot sooner. It is efficient as the developers only focus on what is important and bugs are fixed as they arise.



WORK BREAKDOWN STRUCTURE

This is our project Work Breakdown Structure. By this structure, the project deliverable organizes the team's work into manageable sections.



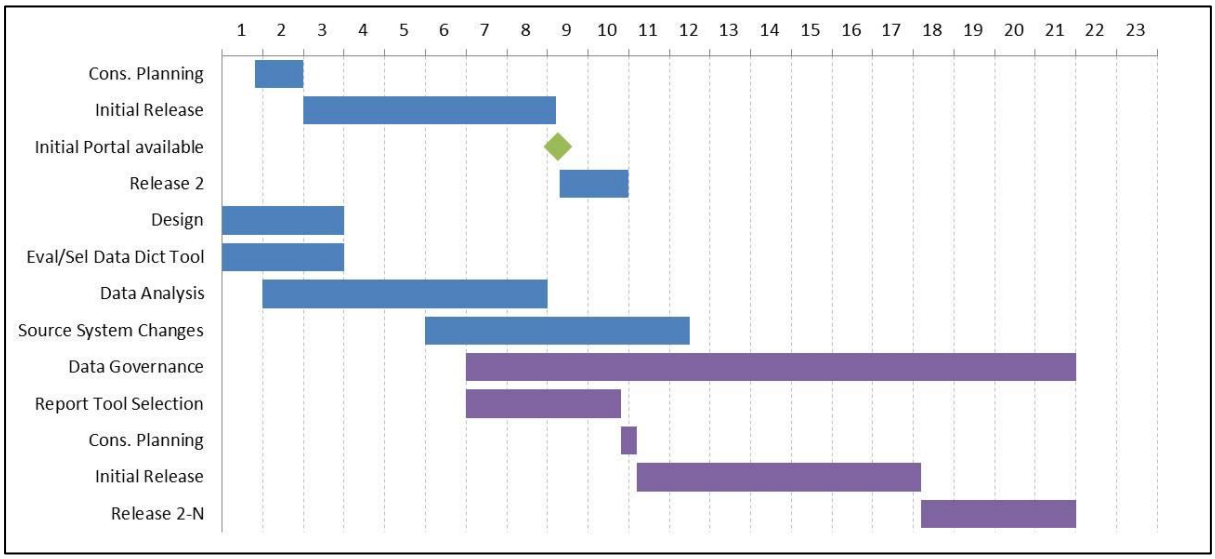
ESTIMATION FOR EACH TASK

We estimate each task through the excel sheet.

	Task Mode	Task Name	Work
1		My Software Project	0 hrs
2		Create the project solution.	1 hr
3		Create the shared view.	1 hr
4		Create the widget controller.	2 hrs
5		Create the widget API controller	2 hrs
6		Create Entitiy Framework code.	2 hrs
7		Developer Testing	2 hrs
8		User Testing	1 hr
9		Rework	2 hrs
10		Developer Testing	1 hr
11		User Testing	1 hr
12		Deployment	2 hrs

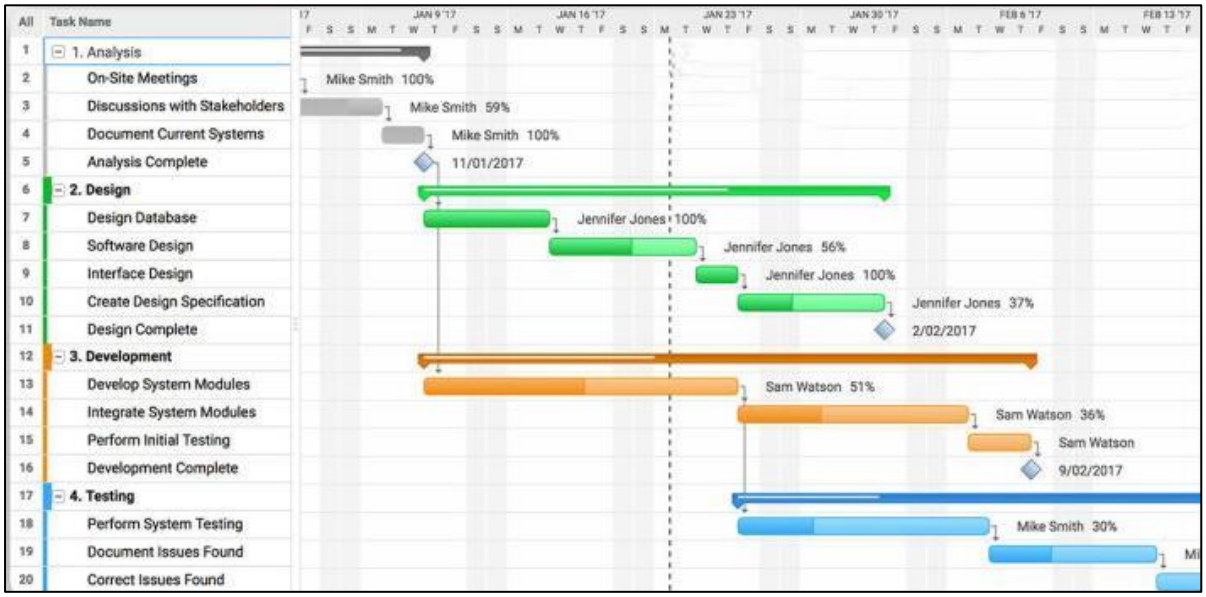
SCHEDULE THE TASKS

Schedule using Time Line or Gantt Chart.



PREPARE LIST OF MILESTONES

Milestones provide a way to more accurately estimate the time it will take to complete our project by marking important dates and events, making it essential for precise project planning and scheduling.



STAFFING PLAN

It is our staffing plan who will complete the project work. in This planning, we require a single person for each task.

Project Management Staffing Requirement with Role and Activity

Activity	Role	Project Responsibility	Number of Staff Required
Requirement Study	System Analyst	Requirement Study	1
UI Design	Designer	Design User Interface	1
Develop System	Programmer	System Development	2
Develop System	Programmer	Data Development	1
System Tester	System Analyst	Test System	1
Trainer	Technical Manager	Training	1
Installation	Technical Manager	Data Center Installation	1

MONITORING AND CONTROLLING MECHANISM

The Project monitoring and controlling process.

- Take action to control the project
- Measure performance
- Determine variances and if they warrant a change request
- Influence the factors that cause changes
- Request changes
- Perform integrated change control
- Approve or reject changes
- Inform stakeholders of approved changes
- Manage configuration
- Gain acceptance from customer
- Perform quality control
- Report on project performance
- Perform risk audits

RISK MANAGEMENT

Risk-1: Being careless the confidential data may be handed on to unauthorized users.

Mitigate: Regularly we are updating our application and currently, we are Developing multilayer protection for our application Database.

Risk-2: No valid information regarding the blood donation or managing programs available on any of the portals.

Mitigate: For this Problem, we contact every commercial and noncommercial hospital to get the previous Donors' details. Now our Team members Building a user-friendly portal that helps to make it easier.

Risk-3: It is not that people don't want to donate blood but their limited knowledge they don't have any idea about blood donation.

Mitigate: We have to do a lot of campaigns to encourage blood donors.

LIST OF DELIVERABLES

Our deliverables list is given below.

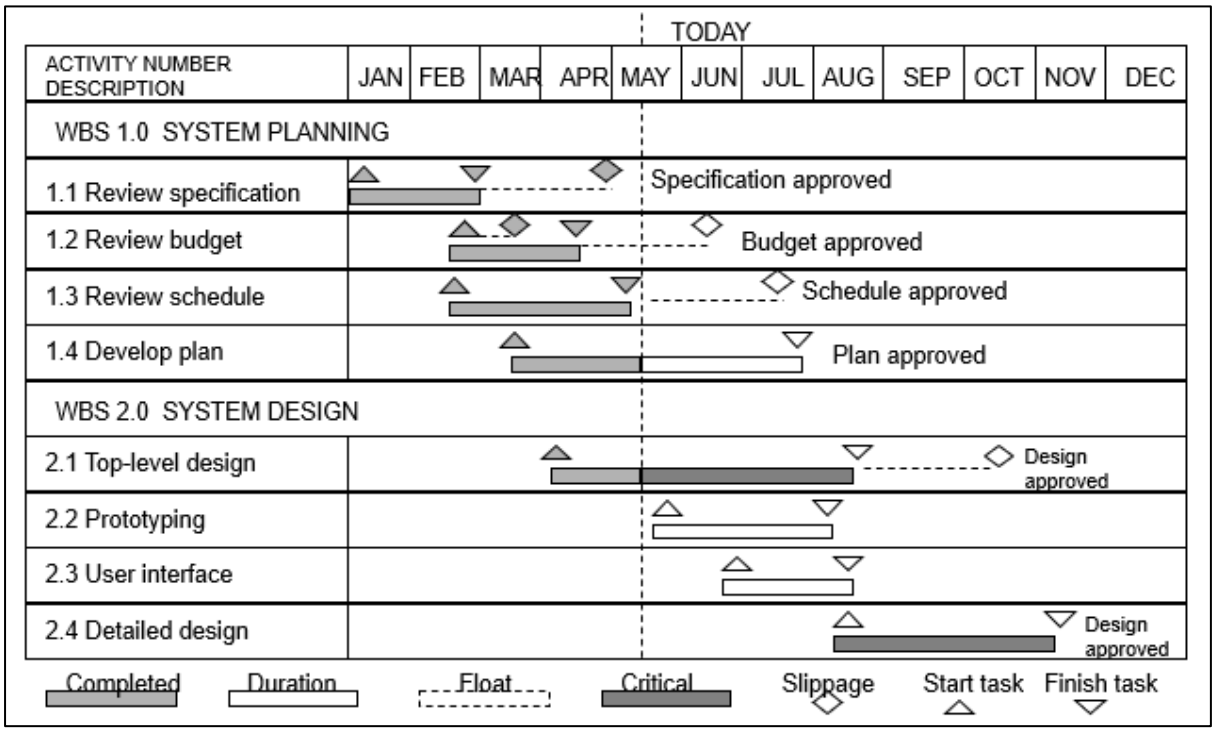
Project Deliverables Template

Project Name	Blood Bank Management System	Project Id	PR18379	Date	08-07-2020
Project Manag	Sazzat Hossen	Overall Status	Green		

Sr No	Deliverable Name	Description	Owner	Status	Start Date	End Date	Comments/Notes
1	Prepare project plan	Identify the milestones and timelines of the project	Maureen Harris	Complete	01-Jan-18	20-Jan-18	
2	Design wireframes	Design the layout of the website	Anil Kumar	In Progress	21-Jan-18	25-Feb-18	
3	Login Module	Create a 2 step login page	Keith Harris	Not Started	15-Feb-18	12-Mar-18	
4	Design rewards module	Provide rewards catelogue	Sharon King	Not Started	10-Mar-18	05-Apr-18	
5							
6							
7							
8							
9							

SCHEDULE TRACKING PROCESS

The schedule tracking process of our Project is given below.



DEFECT TRACKING PROCESS

We use a web-based defect tracking system for the testing Part and we found some defects that's report is given below.

Bug Name: Application crashes on clicking the SAVE button while creating a new user.

Area Path: USERS menu > New Users

Build Number: Version Number 5.0.1

Severity: Medium

Priority: High

Assigned to: Developer-X

Created By: Y

Reason: Defect

Status: Active

Environment: Windows 11/SQL Server 2005

Description:

Application crash on clicking the SAVE button while creating a new user, hence unable to create a new user in the application.

Steps To Reproduce:

1) Login into the application
2) Navigate to the Users Menu > New User
3) Filled all the fields
4) Clicked on the 'Save' button

Expected: On clicking the SAVE button should be prompted with a success message "New User has been created successfully".

POSTMORTEM

This application efficiently maintains donor's details and can easily perform operations on blood donation records. This software also reduces the workload of the blood bank management to know how much blood is available and keep the records of how many patients get the blood from the blood bank. In the future, this system can launch a website for an easy online blood banking system.