

## MILESTONES AND ACTIVITY LISTS

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Project Name	Plasma Donor Application
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### PREREQUISITES:

- **Python IDLE**
- **Flask**
- **IBM**
- **Docker**

### 1. IDEATION PHASE:

- Literature Survey
- Empathize
- Defining Problem Statement
- Ideation

### 2. PROJECT DESIGN PHASE 1

- Problem Solution Fit
- Proposed Solution ➤  
Solution  
Architecture

### 3. PROJECT DESIGN PHASE 2

- Customer Journey
- Functional Requirement
- Data flow Diagram

- Technology Architecture

#### **4. SETTING UP APPLICATION ENVIRONMENT**

- Create Flask Project
- Create IBM Cloud Account
- Install IBM Cloud CLI
- Docker CLI installation
- Create an account in Sendgrid

#### **5. IMPLEMENTING WEB APPLICATIONS**

- Create UI to interact with application
  - Registration page
  - Login Page
  - Stats page to display the count
  - Request Page
- Create IBM DB2 and connect with Python
  - IBM DB2 with Python

#### **6. INTEGRATING SENDGRID SERVICE**

- Sendgrid integration with Python code

#### **7. DEPLOYMENT OF APP IN IBM CLOUD**

- Containerize the app
  - Docker image creation
  - Creating Docker image for flask app
- Upload image to IBM container registry
- Deploy in Kubernetes cluster

## **8. PROJECT PLANNING PHASE**

- Prepare Milestone and Activity list
- Sprint Delivery Plan

## **9. PROJECT DEVELOPMENT PHASE**

- Project development-Delivery of sprint-1
- Project development-Delivery of sprint-2
- Project development-Delivery of sprint-3
- Project development-Delivery of sprint-4