# EKG Using Cloud Services Project Plan

Team 3:

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## Introduction

- Electrocardiogram (ECG or EKG) test used to detect cardiac problems
- Test results/data printed to paper or viewed on monitor
- Not efficient for nurses
- Goal: design EKG using cloud services system



# **Software Description**



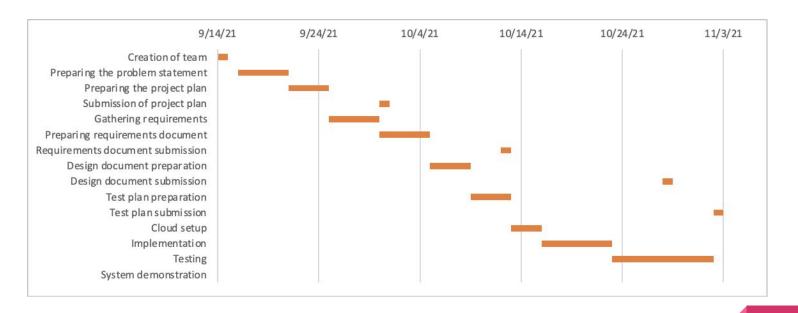
## **Team Member Roles**

- Promyse Project Manager
- Jennifer System Analyst
- Bhargav Quality Assurance Manager
- Surya Test Analyst

# **Project Timeline**

Task Name	Start	End	Duration	Members Responsible
Creation of team	9/14/21	9/14/21	1	Team
Preparing the problem statement	9/16/21	9/21/21	5	Team
Preparing the project plan	9/21/21	9/25/21	4	Team
Submission of project plan	9/30/21	9/30/21	1	Team
Gathering requirements	9/25/21	9/30/21	5	Jennifer & Promyse
Preparing requirements document	9/30/21	10/5/21	5	Jennifer & Promyse
Requirements document submission	10/12/21	10/12/21	1	Jennifer & Promyse
Design document preparation	10/5/21	10/9/21	4	Team
Design document submission	10/28/21	10/28/21	1	Team
Test plan preparation	10/9/21	10/13/21	4	Surya & Bhargav
Test plan submission	11/2/21	11/2/21	1	Surya & Bhargav
Cloud setup	10/13/21	10/16/21	3	Surya & Bhargav
Implementation	10/16/21	10/23/21	7	Team
Testing	10/23/21	11/2/21	10	Team
System demonstration	11/4/21	11/4/21	1	Team

## **Project Timeline**



### **Potential Difficulties**

- Integration of heterogeneous data sources
- HIPAA standards for privacy
- Large amounts of data for continuous monitoring
  - Delayed processing
  - Identification of relevant data
- Visualization of lengthy time-series data

#### Resources

#### **Human Resources:**

- Team Members
- Outsourcing:
  - Programmer/Developer
  - Cloud Engineer
  - Web Developer

#### Hardware:

- EKG Machine

#### **AWS Cloud Resources:**

- S3 Simple Storage
- Relational Database Service (RDS)
- Lambda
- EC2 Instance