



Fatima Jinnah Women University

Department Of Software Engineering

PROJECT

Course Title

Software Engineering Fundamentals

Submitted To

Engr. Mehreen Sirshar

Submitted By

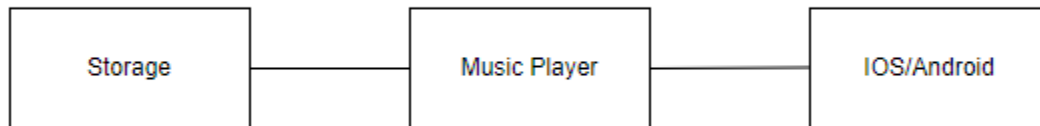
Maryam Fatima
Section: A (2 nd Semester)
Registration No: 2021-BSE-028

Date of Submission

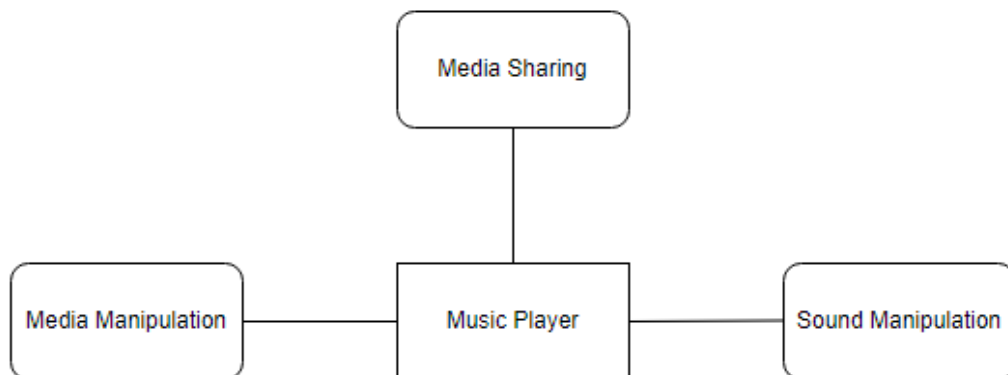
July 9, 2022

MUSIC PLAYER

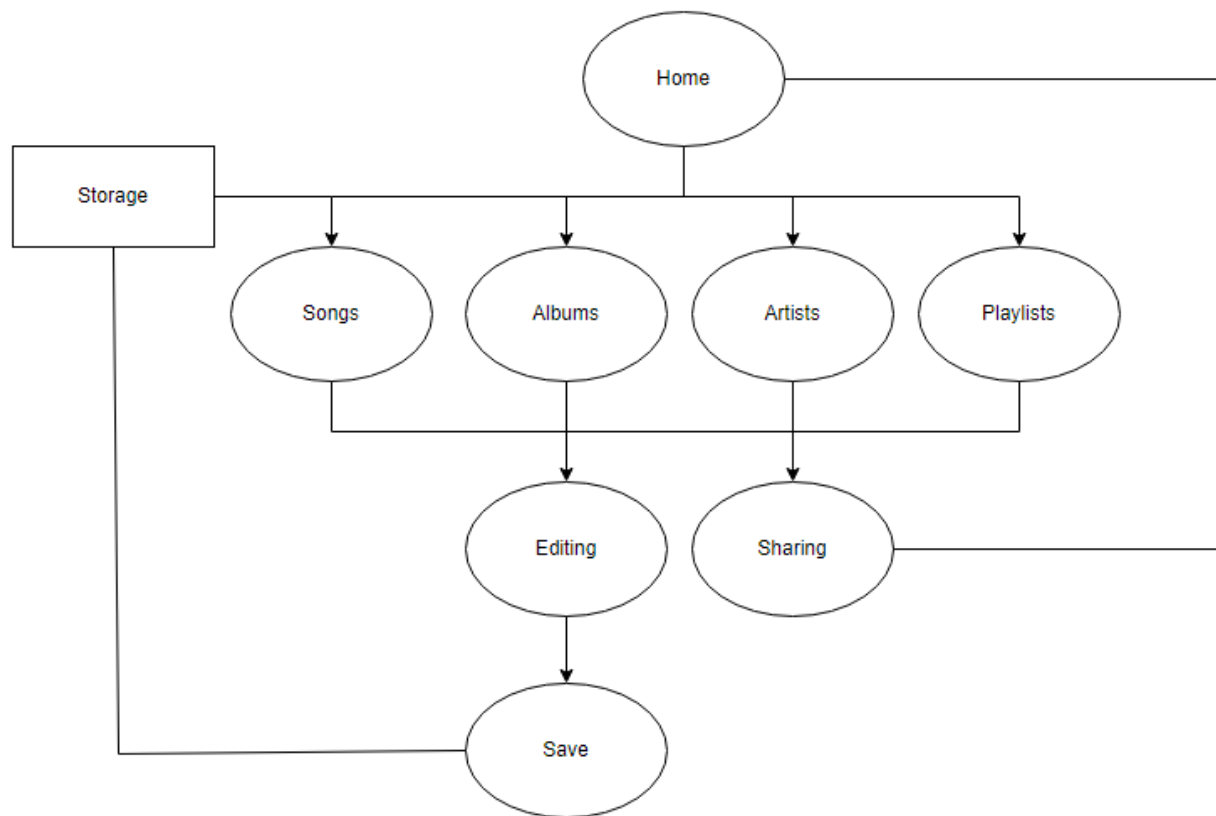
CONTEXT MODEL



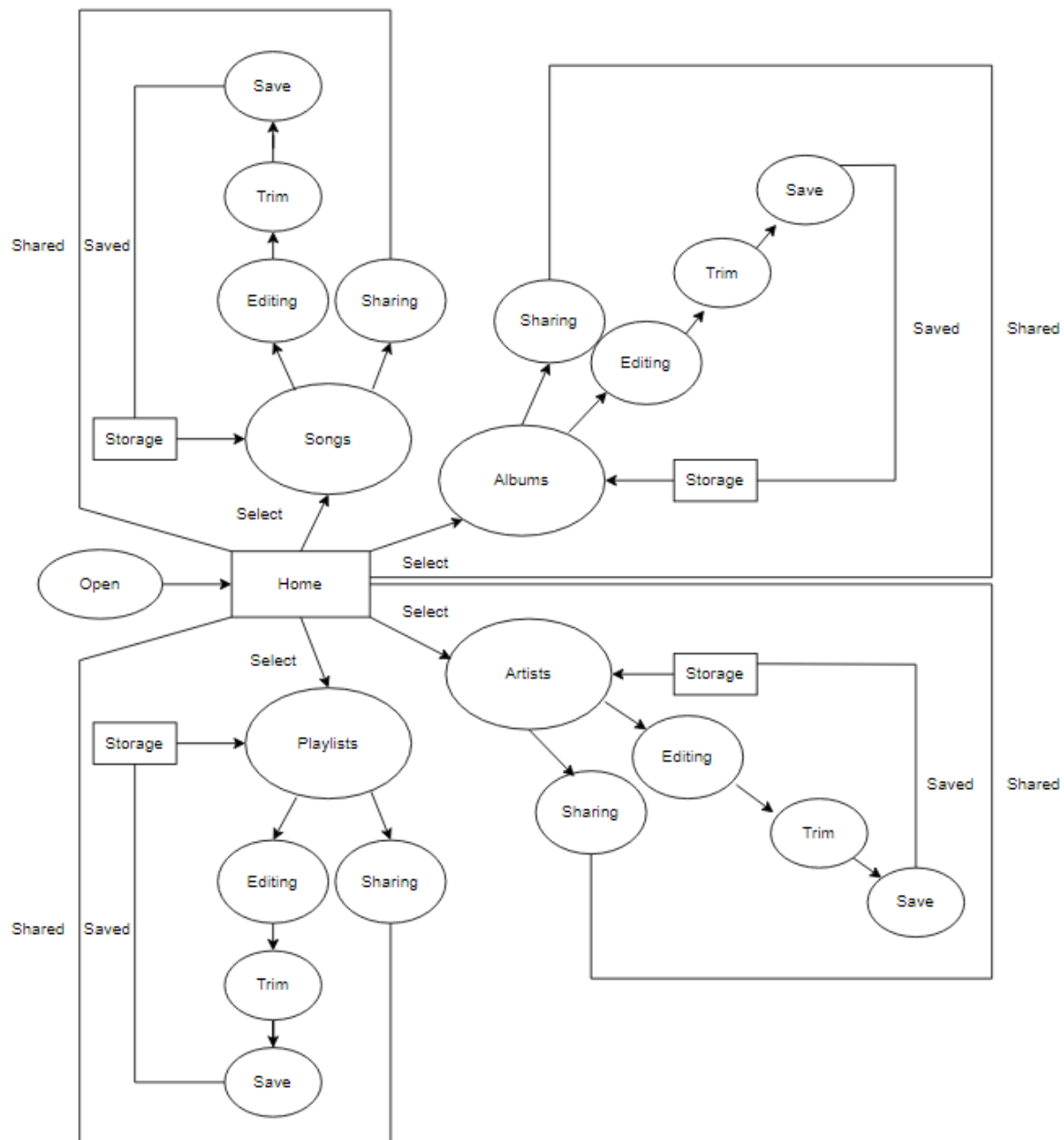
STRUCTURAL MODEL



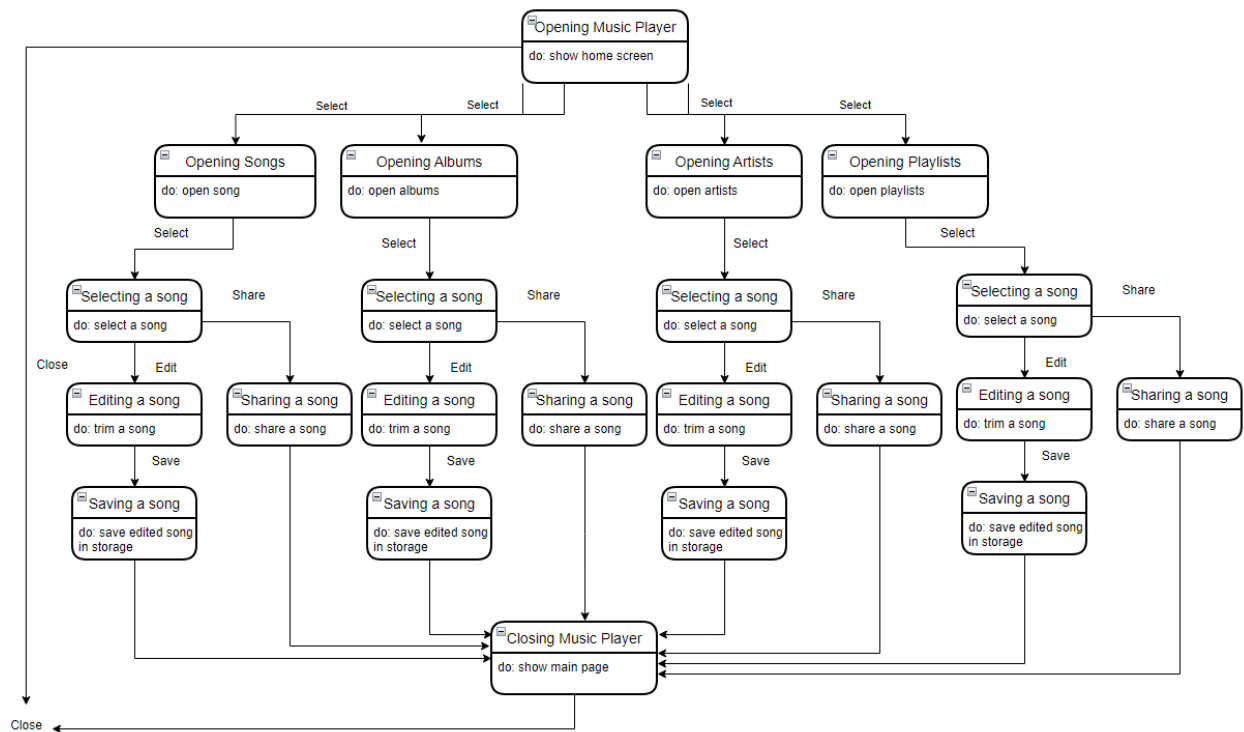
DATA FLOW MODEL



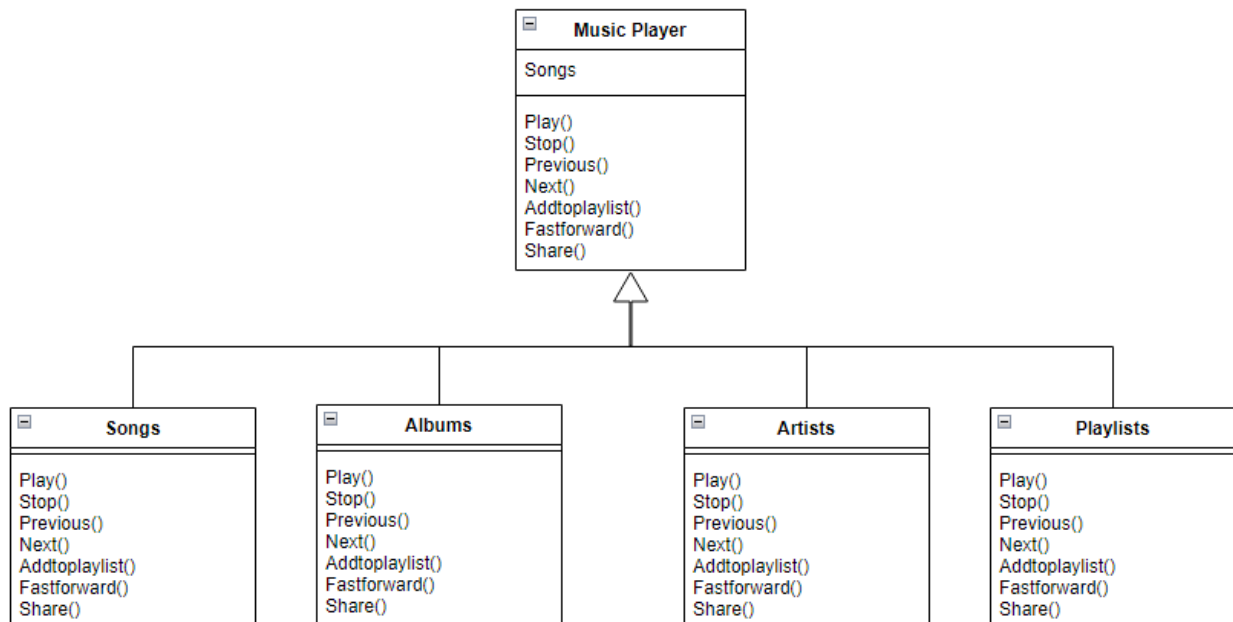
PROCESS MODEL



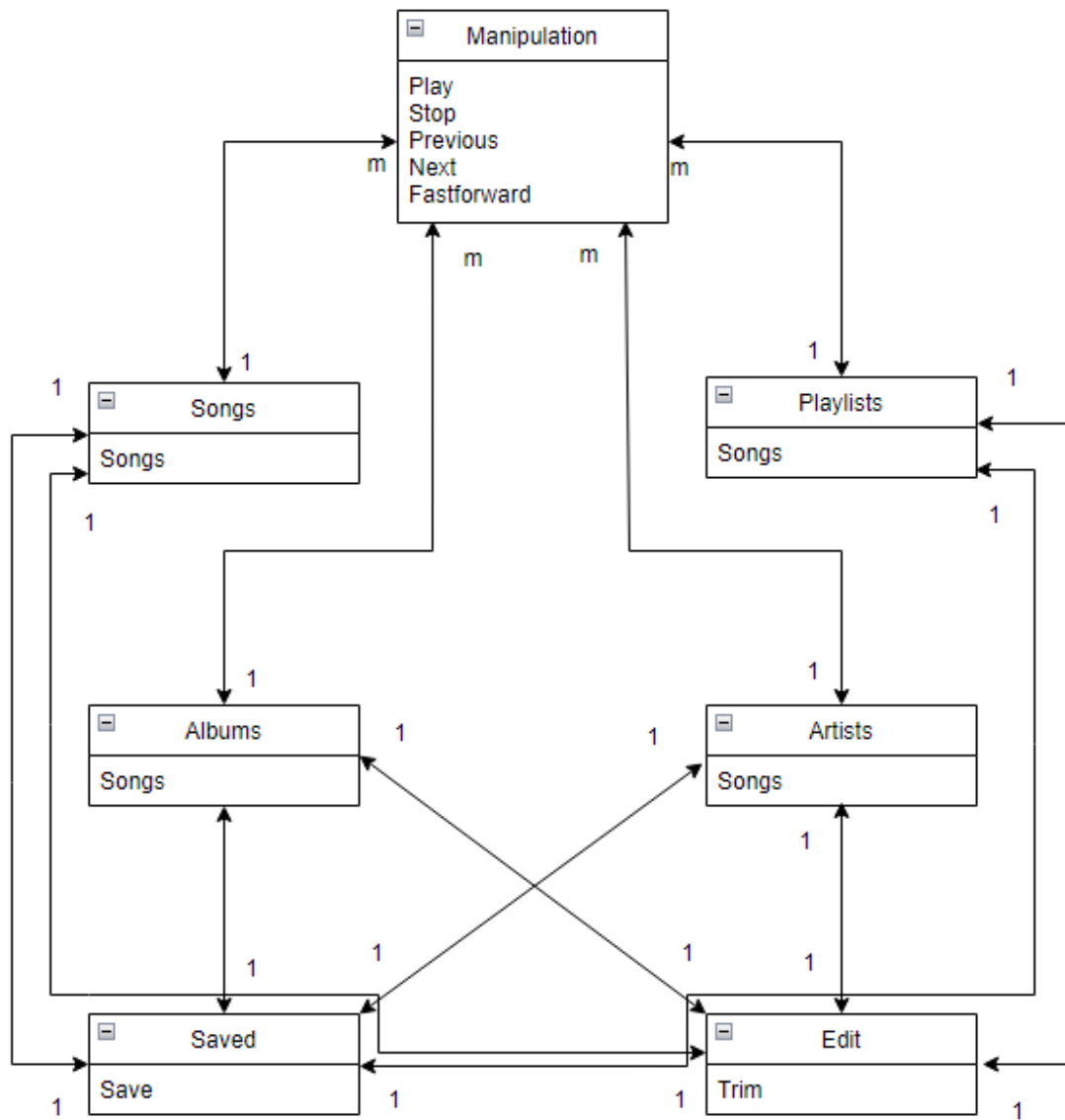
STATE- MACHINE MODEL



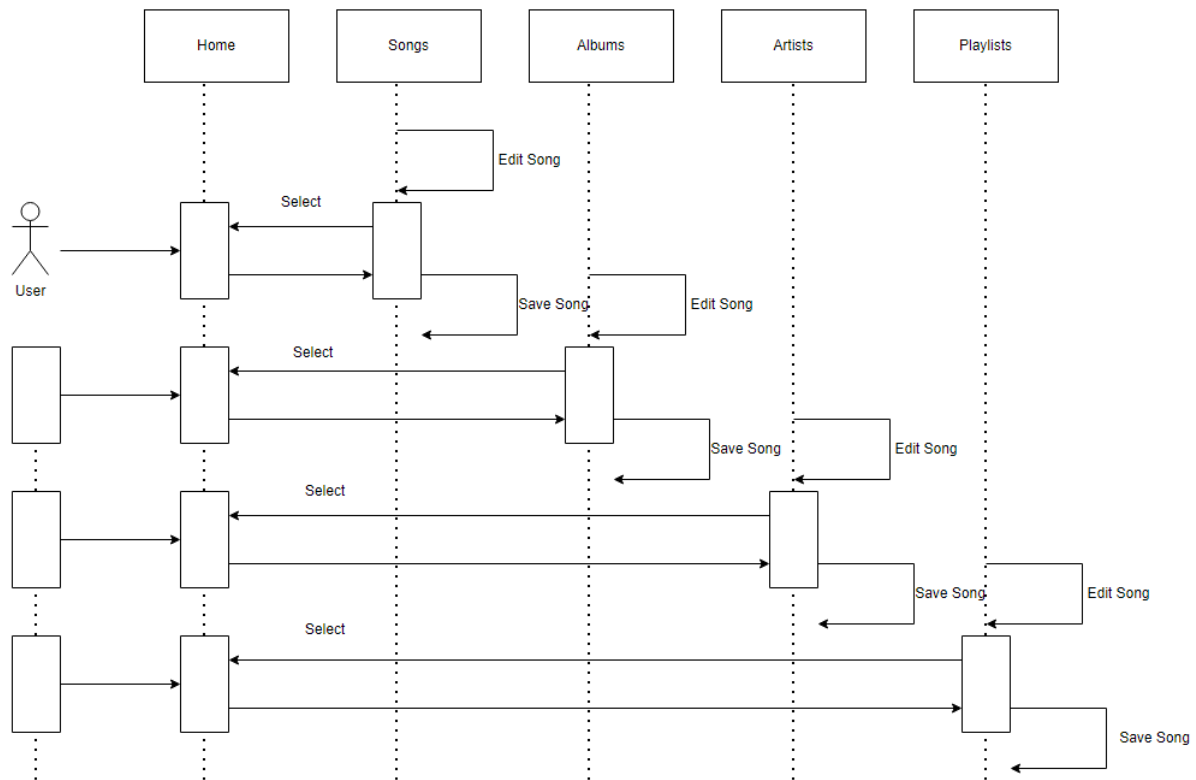
INHERITANCE MODEL



OBJECT ORIENTED MODEL



SEQUENCE MODEL



Proposal Writing

The objective of the project is to develop an application “Music Player” according to current market demands and customer needs.

Project Planning And Scheduling

Introduction

We will develop a “Music Player” application that will have the following features;

- Music categorization
- Offline music player
- Support sound equalizer
- Edit music contents
- Music sharing

Project Organization

Five teams that will work for the development of the application along with their tasks;

- Requirement team (SRS)
- Design team (SDA)
- Coding team (Code)
- Quality Assurance team (Verification and Validation)
- Configuration team (Deployment on App Stores)

Risk Analysis

The risks to our application development along with the likelihood percentage could be;

- Time risk (10%)
- Economic risk (5%)
- Power breakdown risk (10%)
- Internet breakdown risk (5%)

Hardware and Software Requirements

The organization has all the support hardwares and softwares to carry out the development of the application

Work Breakdown

Deliverables

- SRS
- SDA
- Project Code

- Project Software with manual

Project Schedule

Estimation time taken by each milestone and deliverable is one week and three weeks respectively.

Project Cost

Budget: Rs. 100,000

Project Monitoring and Reviews

Project monitoring will be personally done by the project manager after each fortnight to know actual and estimated pace of the application development.

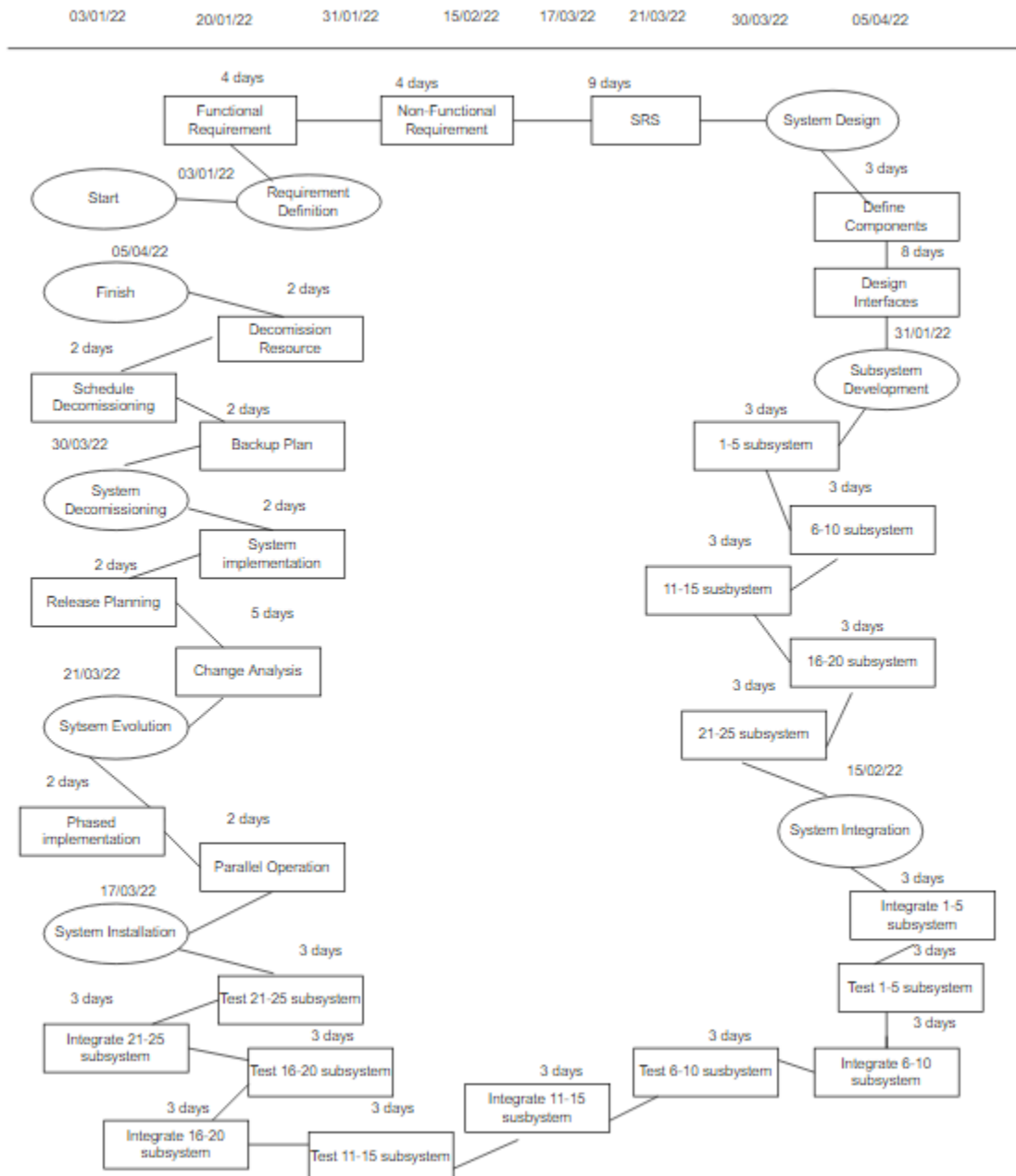
Personal Selection and Evaluation

The staff for the application development is selected and evaluated on the basis of their experience and demanded set of skills.

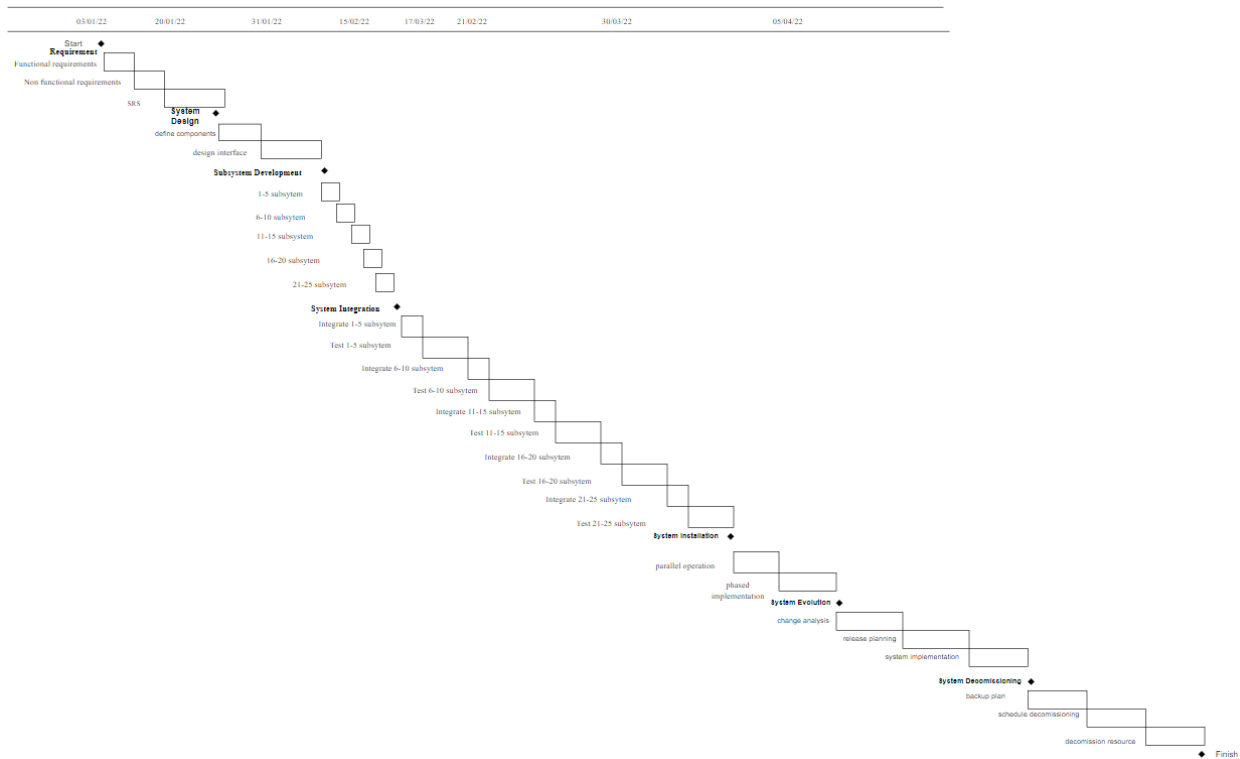
Report Writing and Presentation

The project manager will be provided a progress report after each milestone and deliverable of the application development.

Bar Chart



Network Diagram



Risk Management

Project Risk

The project risk to our project can be requirements change, staff turnover and loss of any experienced team member.

Product Risk

The product risk to our project can be failure of software components to work properly.

Business Risk

The business risk to our project can be technology change and competitor introducing a new product related to our product in the market before us.

Risk identification

The risks that can arise during application development could be;

- Technology risk
- People Risk
- Requirements risk

Risk Analysis

The risk estimates could be;

- Technology risk (<10%)
- People Risk (10-25%)
- Requirements risk (<10%)

Risk Planning

The organization has minimization strategies and contingency plans in case of any risk like;

- Staff illness
- Requirements change
- Organizational financial problems

Risk Monitoring

The organization has a separate monitoring team that will monitor risks and their effects throughout the process of application development.