Project Report

Project Name: One Stop Service Points

Course Title: Object Oriented Software Development

Course code: SWE331

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1. Introduction

1.1 Case Study

One Step Service Point will help the foreign and local investor to start their business or project as soon as possible by helping them to solve their paper verifying and permission issue. Currently in our investment environment it takes more than 1 year to just submitting all paper and get permission for all ministry. Due to low cost of worker, land and tax-free export many investors are interested to invest or start project in Bangladesh. But for our unfriendly investment environment often they can't execute their plan in high time.

1.2 Finding the Gap

First of all, we have some problem with coordination with Ministry to ministry even department to department of each ministry. All our paper is assigned and granted in real paper so storing and checking data is not time effective. When a foreign investor make plan to start or execute his plan in Bangladesh, he couldn't find a lot of information about our paper verification process. We don't have many professional agencies who can do the paperwork for our foreign investors. If all the paper is applied than it may happen the granting time is huge. Here is the basic gap of our system.

1.3 Objective

Our system will solve some problem and also fasten some process. It'll reduce documentation granting time from ministry to one year to 1 month. It can reduce extra hassle of an investor from ministry to ministry or department to department. As result they can give their time and concentration to many other important work and meeting. If Bangladesh want to take participation 4^{th} industry and tech revolution then we have to make an investment friendly environment for foreign investor because if our permission procedure takes so much time as 1 year as or more than the business goal may fail after 1 year for rapid tech revolution.

1.4 Goal

Goal of One Stop Service Point will be

- Reducing paper granting time from ministry.
- Making the full verification process paperless.
- Making a reliable system which can hold confidential data of foreign investor.

- Dealing with many investors at a time and dealing with all ministry according to the project need.
- It will reduce fake costs of vendor or middle point agency.

1.5 Stakeholders

INVESTOR: Investor is our main client in our system who'll use our system for taking permission from our ministry and start a business or project. They can enter into the system then they can select their business category from our system's pre-defined business categories. Then the investor can see how many ministry permissions he need to get approval for his project and they system will inform him what to do and how.

EMPLOYEE: We'll have at least one specific employee for each ministry. They are expert in handling or processing paper for the specific ministry. They'll check all the paper from client and check the limitations or problem from his previous experience and send the feedback to the investor.

GOVERNMENT MINISTRY: We'll have id for each ministry in our system like one for electric ministry and another from rajuk. The government ministry will verify and check all paper and match with standard. If they find any issue with the paper, they can send the paper with the feedback or cancelation reason and feedback. If ministry find all the information is correct than the Ministry will send feedback that the project is approved and it'll be written in feedback what amount he need to pay because payable amount may vary on project size, time and budget.

2. Feasibility Analysis

2.1 Technical Feasibility:
We are three student of software engineering department who can execute all the features and plans of our project. We'll use C# programming language in Visual Studio Platform. We'll use SQL management server to deal with clients confidential data.

2.2 Scheduling Feasibility:
Our project is scheduled for four month and now we're dealing with the main features of the system. We can finish the project before the deadline because we have already separated all works into pieces and working like Agile Project.

2.3 Economic Feasibility:
We have three software engineering student and 3 well configured laptop in our team. All our software is basic and free version such as Visual Studio and SQL Management system. So our system is budget friendly and also we have all the human and technical resources. We don't need extra software to finish the project so we're quite hopeful that we can finish the project in low budget before the deadline.

2.4 Legal Feasibility:
We are making project that also related to government ministry so our project will follow all the governmental law and it won't go against any law. Also this project is legally publishable and users can use the system without any hesitation. For more credibility we have the legal license from the government under this project.

2.5 Operational Feasibility:
It's already set how our project will be integrated and when we'll finish part of which function. We already completed the project demo presentation in front of other teams and started documentation of our project. We included only those important feature which we can successfully integrat. With each implement will also test and check if the functional requirement is fulfilled or not.

3. Project Requirement

3.1 Functional Requirements

FR-01	**Sign Up**
Description	At first user must be sign up to get into the system with all information.
Stakeholders	Investor, Employee, Government Ministry
Priority	High

FR-02	**Log in**
Description	After completing the sign up the client have to log in the system to visit the website and can invest their interested filed.
Stakeholders	Investor, Employee, Government Ministry
Priority	High

FR-03	**Investment Category**
Description	Investor can select interested category where they want to invest.
Stakeholders	Investor
Priority	High

FR-04	**Paper Verification**
Description	It is important to verify the investor paper is that valid or fake. Here also verify the client bank statement that he have enough money to invest.
Stakeholders	Government Ministry
Priority	High

FR-05	**Cost Estimate**
Description	Client will concern about their cost that how much will cost for the invest to their interested investment

	field and what is the payable amount or tax for the government ministry
Stakeholders	Investor, Government Ministry
Priority	High

FR-06	**Feedback**
Description	If any papers is rejected from ministry for which purpose the papers is rejected the system will notify to the client that for that purpose the papers are rejected.
Stakeholders	Investor, Government Ministry
Priority	Medium

FR-07	**Manage Project**
Description	Our team check the form and for individual investment the admin panel of the system send to that papers to the different ministry for approve the investment.
Stakeholders	Employee
Priority	High

FR-08	**Log out**
Description	After completing all that thing client will log out from that system.
Stakeholders	Investor, Employee, Government Ministry
Priority	High

3.2 Non-functional Requirement

3.2.1 Security

3.2.1.1 Data Transfer

The system shall use to secure all transaction that include any confidential customer information. The system will secure all transaction with the customer. The system will not leave all cookies on the customer computers containing any of the user confidential data.

3.2.1.2 Data Storage

The system secure the confidential data of the customer. Here customer web browser shall never be displayed any customers credit card numbers retrieving from database. The system back-end server only be accessible for the authorized administrator and authorized user. That system will provide the best security for the customer to their data and the confidential data also.

3.2.2 Usability

The system will provide a uniform look and feel between all the web pages and it also provide use of icons and toolbars that's why to use the system with comfortable to the users.

3.2.3 Performance

This system is web based and run from the web server. In performance how efficiently perform the system from the server with multiple users. Here provide the best quality performance to the user but sometimes performance depends upon the configuration of the client computers and internet strength of the client computer.

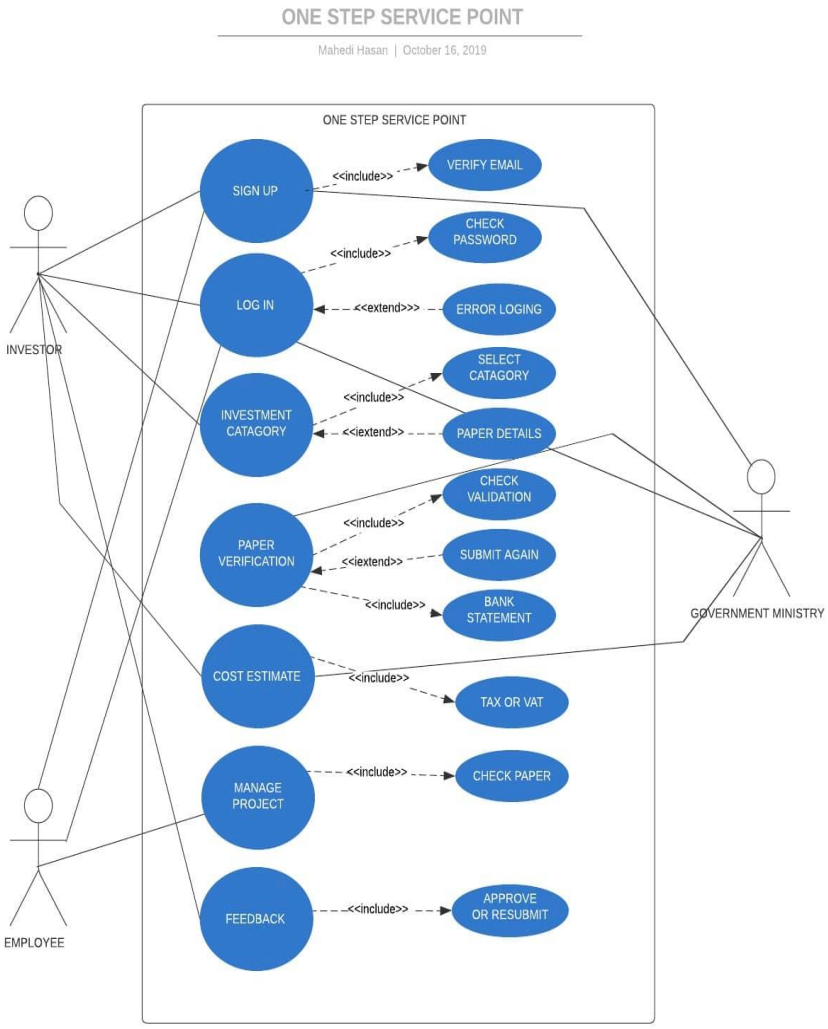
3.2.4 Reliability

It means that the expected output from the system that's mean that the system will fulfill to client desire what he actually want from the system. The system shall provide storage of all databases on redundant computers with automatic switchover.

3.2.5 Maintainability

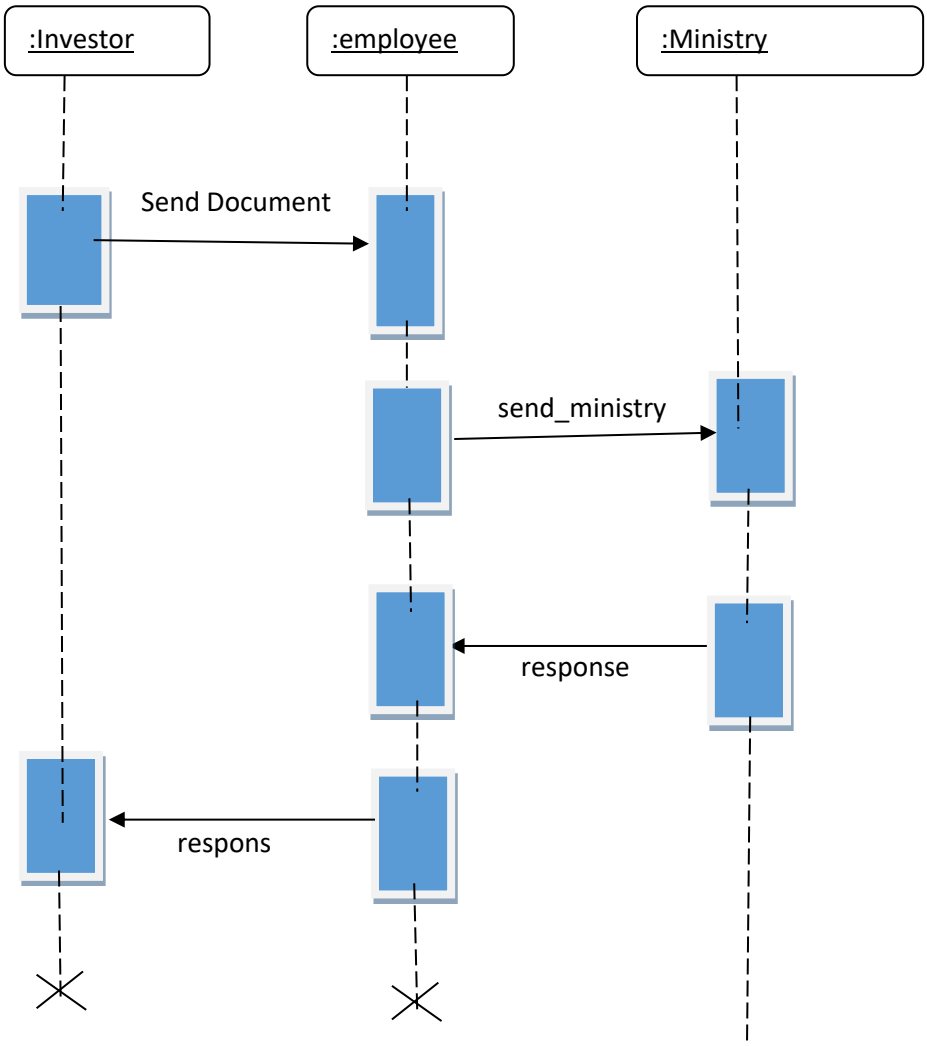
The system allows to create clients profile and their business profile and their investment information. That system also have to allow the client to update their information to the system. The system is to maintain for the better performance to the client.

4. Use Case Diagram

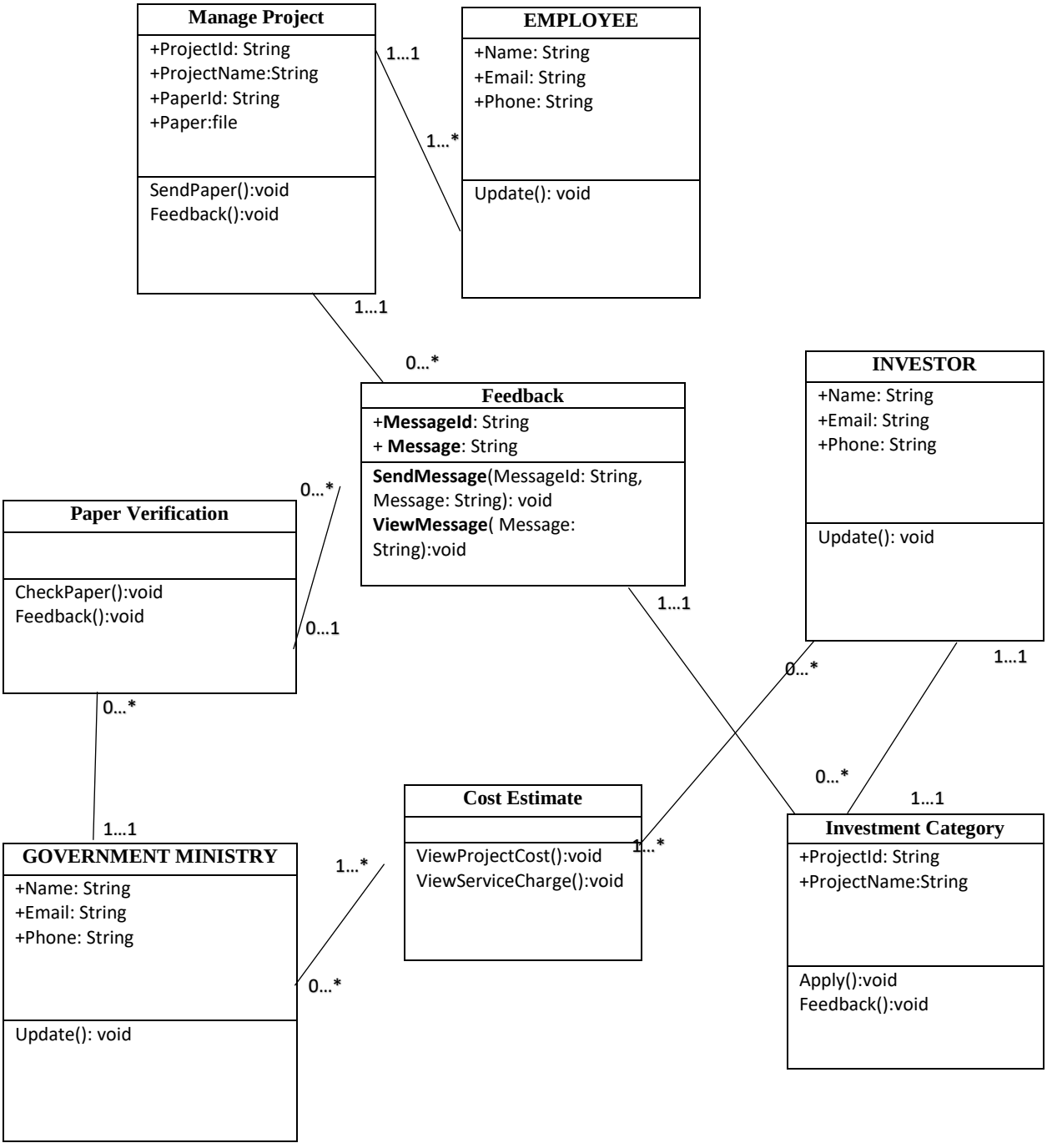


5.Usecase Description

6.Sequence Diagram

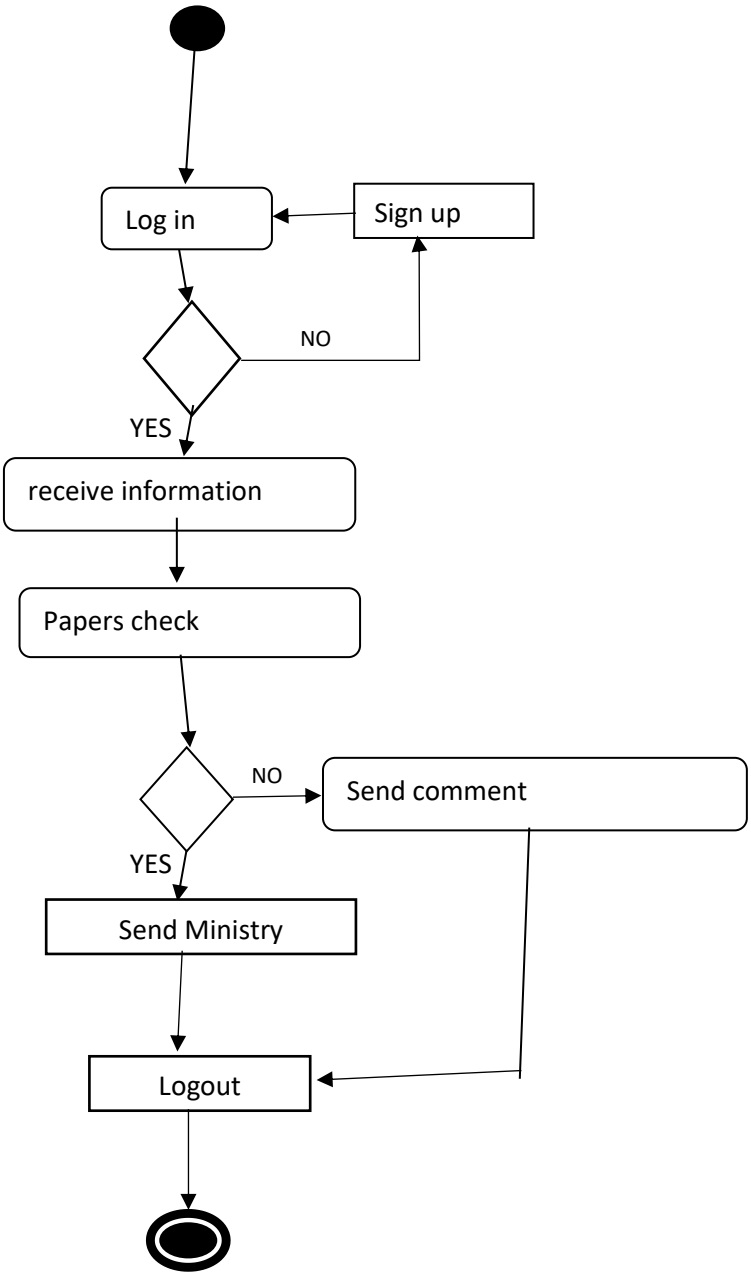


7.Class Diagram

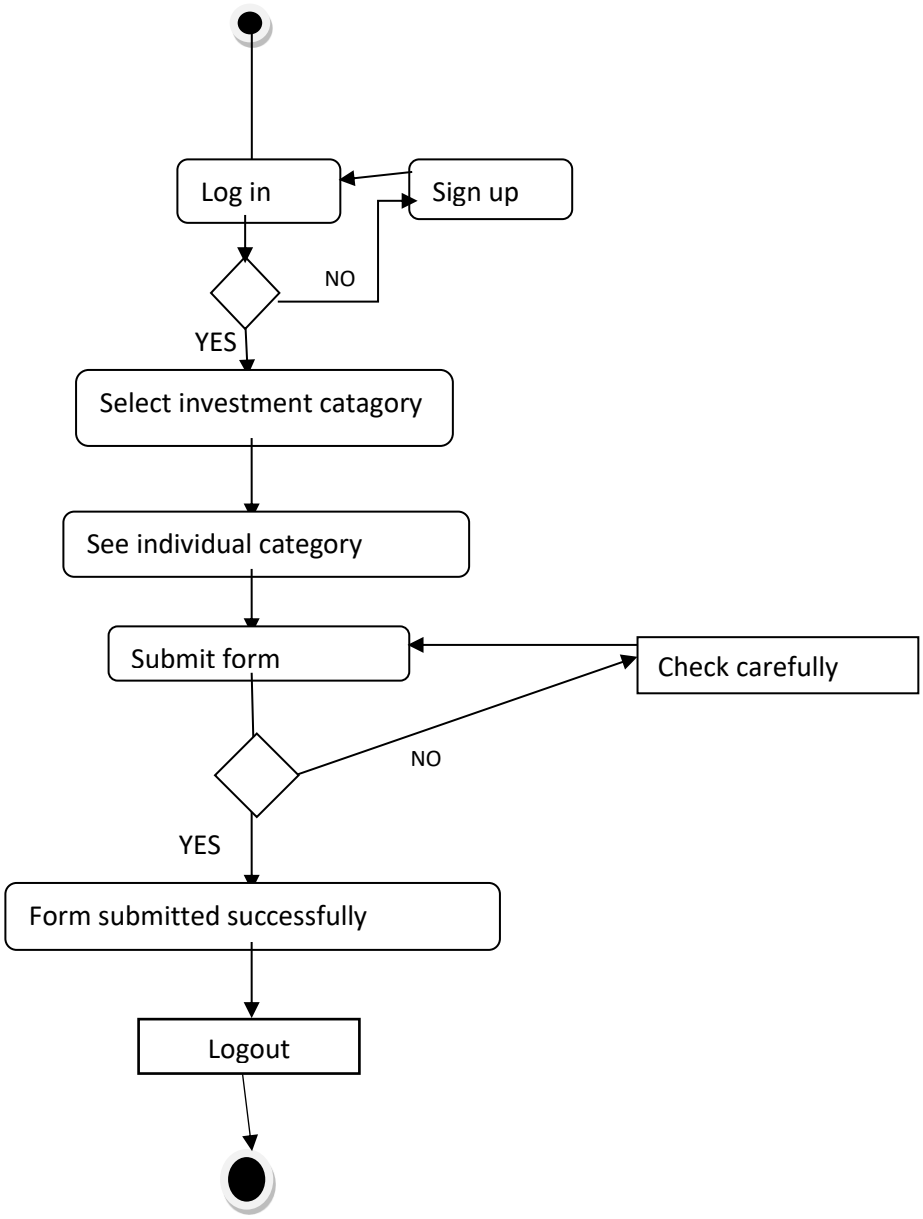


8.Activity Diagram

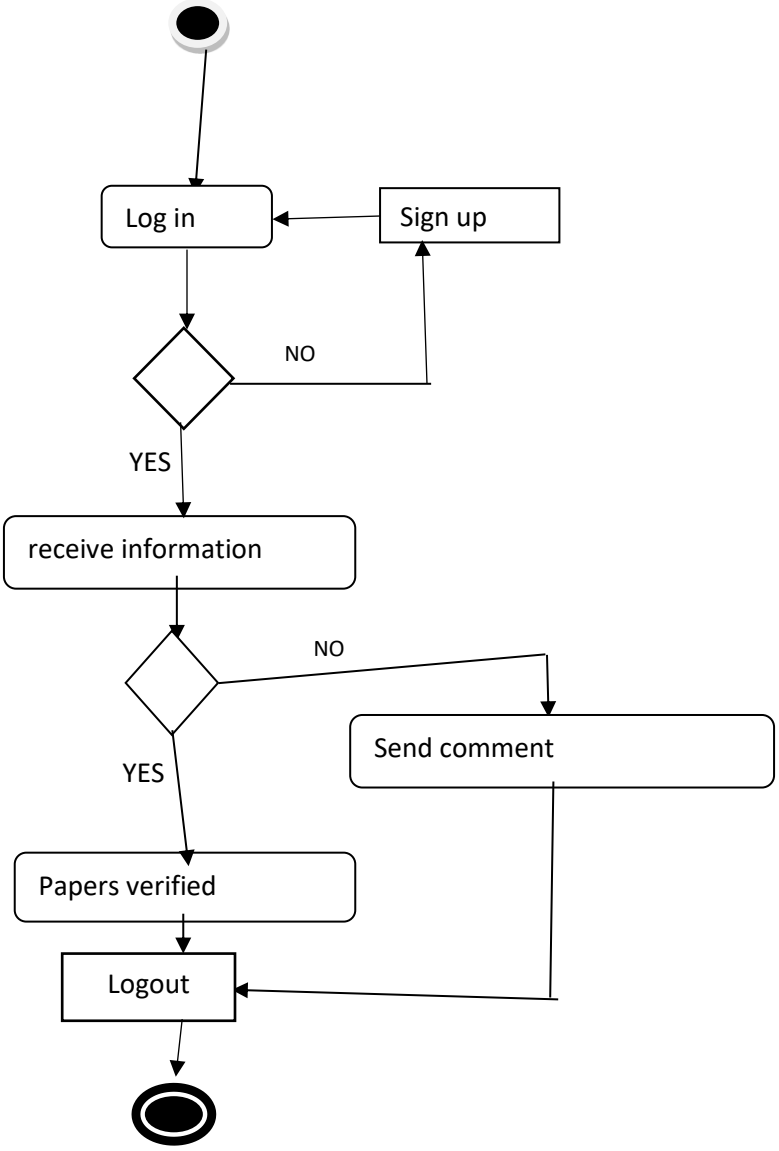
Manage project



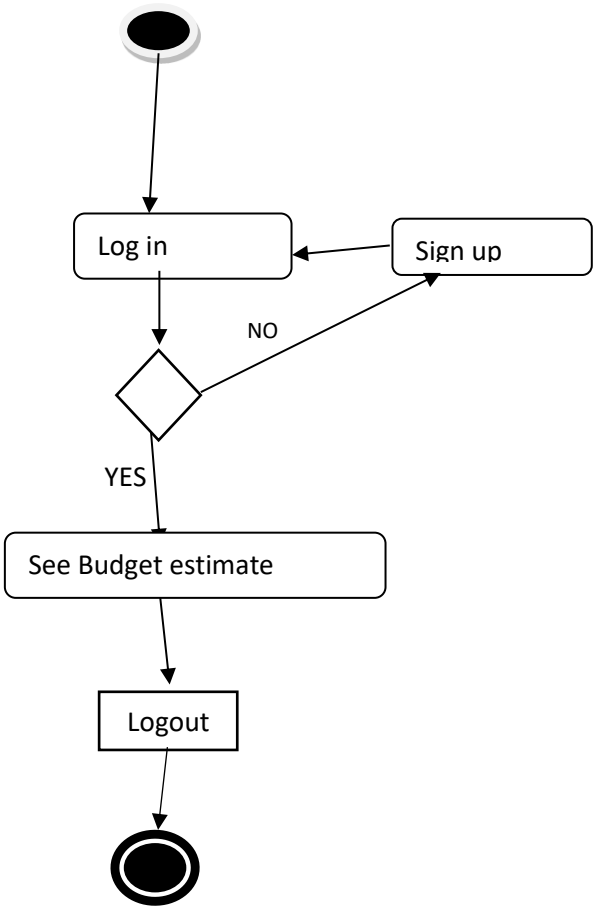
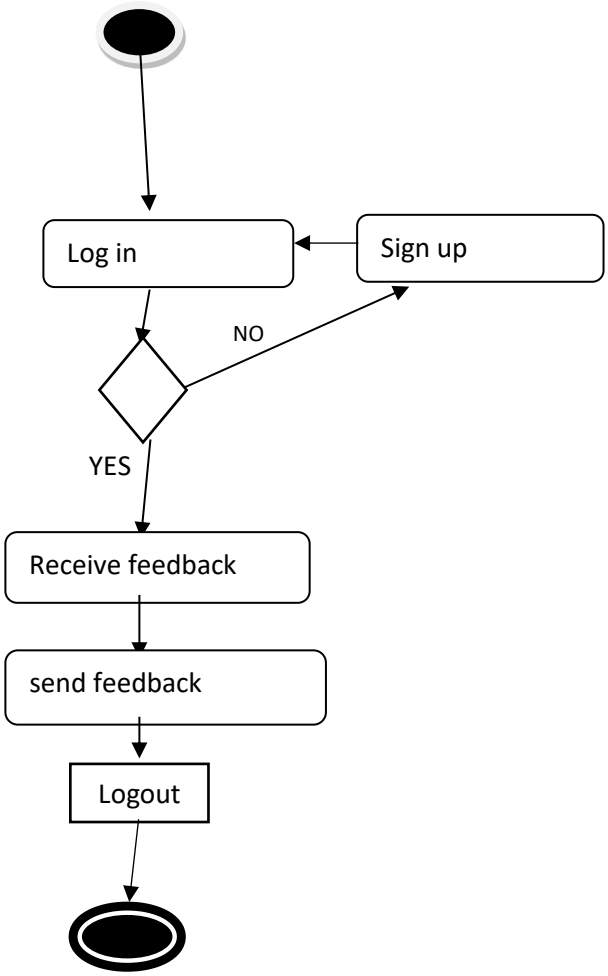
Investment Catagory



Paper Verification



Cost Estimation



Feedback