Emergency Medical Service

SUBMITTED TO

DR. RAZIB HAYAT KHAN
Assistant Professor
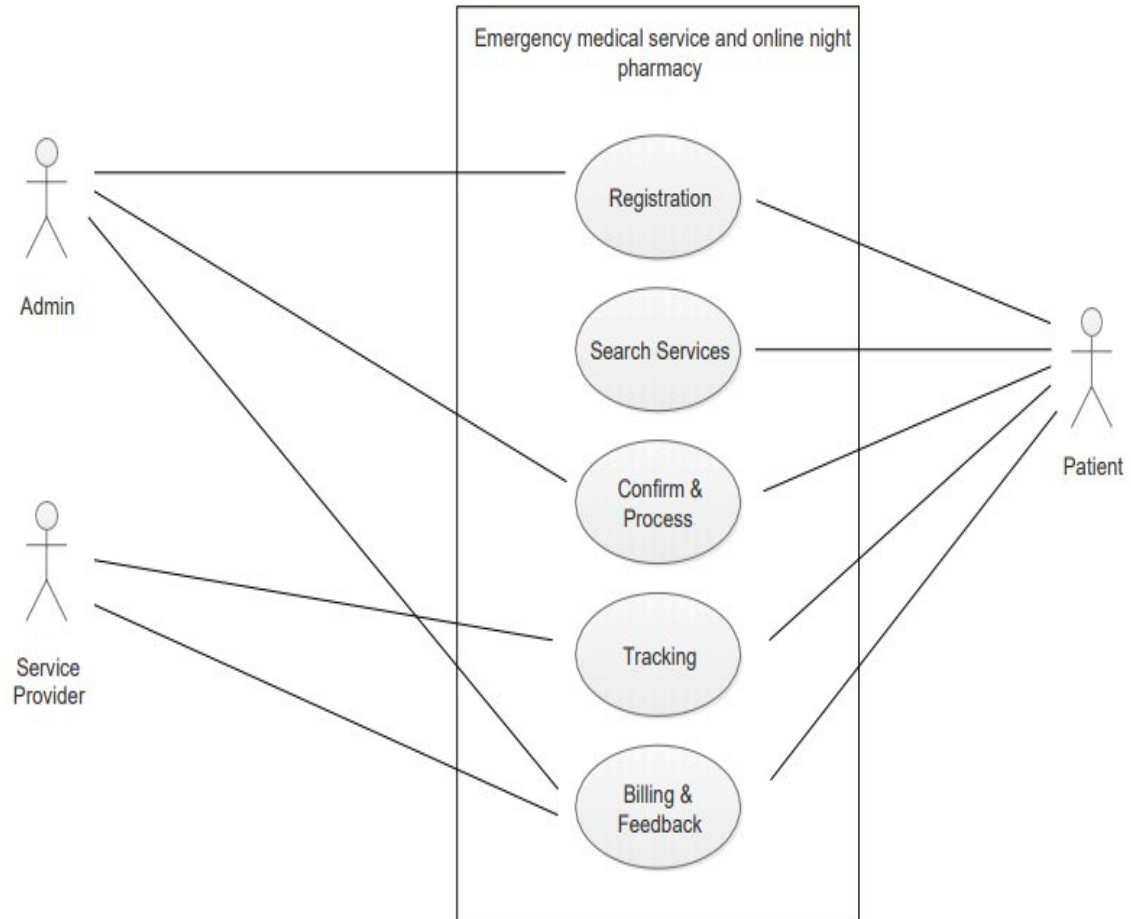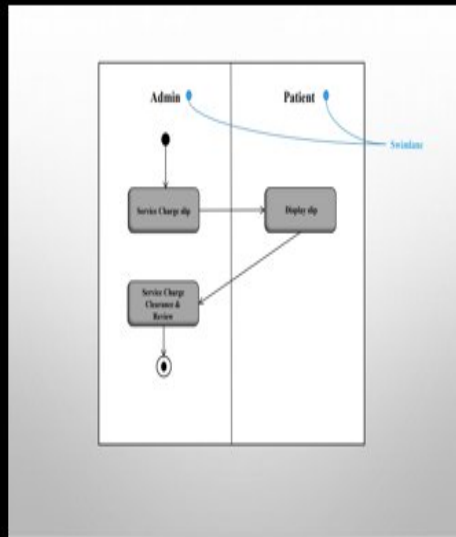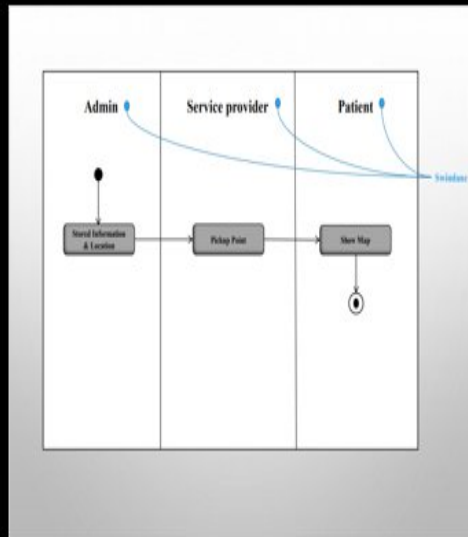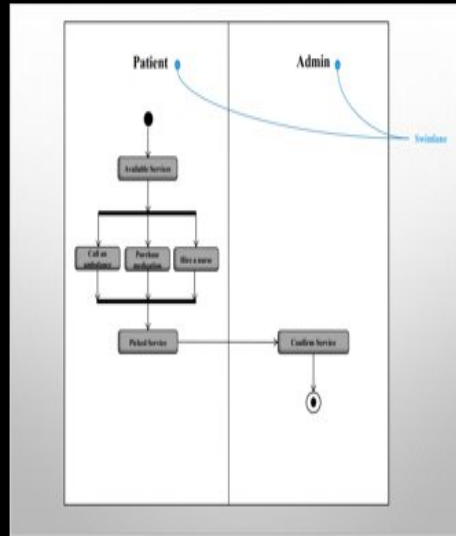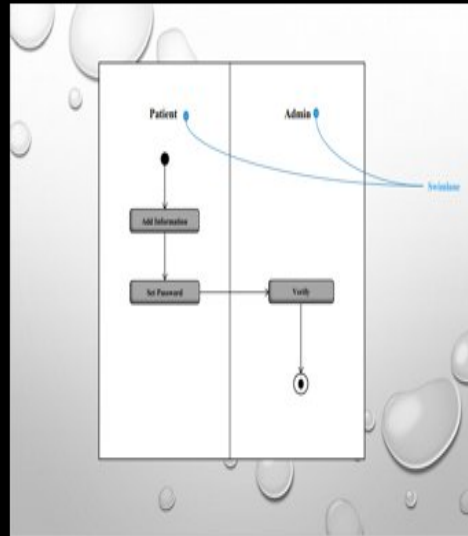Department of Computer Science
American International University-Bangladesh

GROUP MEMBERS

Muhammad, Akib
19-39372-1

USE CASE DIAGRAM

ACTIVITY DIAGRAM
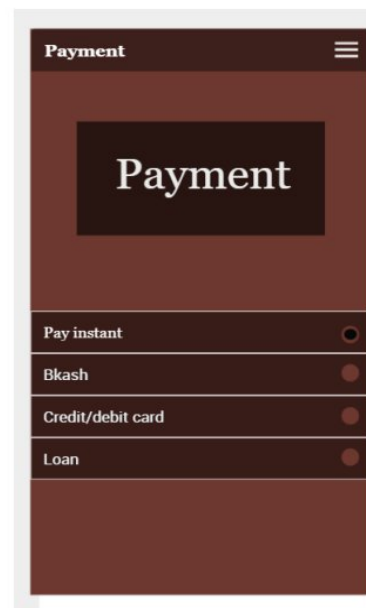
USER INTERFACE DESIGN

User Story Template

Title: Registration	Priority: High	Estimate: 1 day

As an *unauthorized user I want to provide my personal information so that I can receive username and password to access the system.*

I want to store the personal information which will allow the users to create an account and the admin will be able to verify those information before the completion of an account.
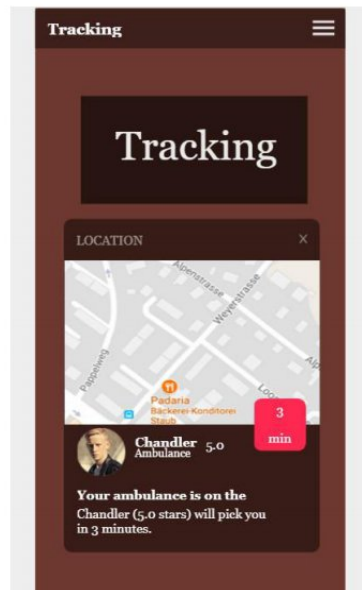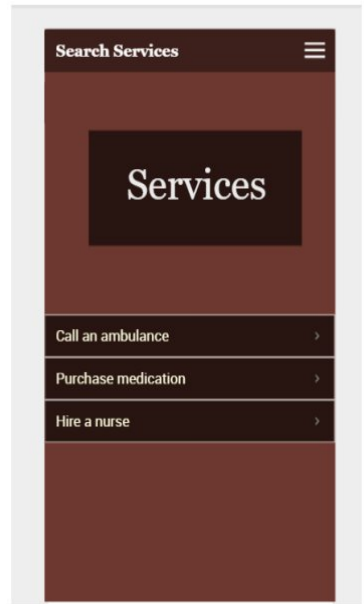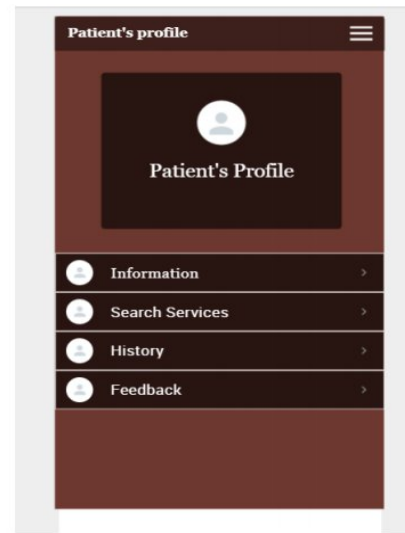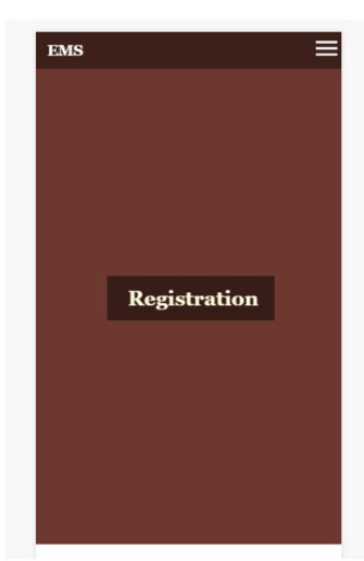
so that I can achieve the comfort zone of the users by making the function as user friendly as possible.

Acceptance criteria

Given: The stored information will be monitored by an admin and when the users fulfilled the necessary information & account information the admin itself will verify the account in order to activate the accounts.

When a user pays for the premium account they will be able to use the premium features.

Then users will get the privilege of using this feature without any difficulty because the application will be designed as per the user's comfort zone towards the feature.

Title: Search Services	Priority: High	Estimate:3 days

As an authorized user the feature of exploring offered services will be provided in this system.

I want to search some services which can be needed at the time of need. Those services should be easily accessible and user friendly.

so that I can use them according to emergencies like calling an ambulance, purchasing medicines, hiring nurse for home service etc.

Acceptance criteria

Given: One of the requirements was to provide a tab where users can explore the services after registration.

When the tab is visited the user will be able to see the offered services and they can select their services according to their needs after observing the different sections of the searched services.

Then the tab will make things easier for the users to choose or to find their services.

Title: Billing & Feedback	Priority: High	Estimate: 2days

As an *admin billing will be provided through the system and afterwards the users will be provided with the feedback tab where they will share their experience.*

I want to perform a task where the user can be choose different methods of payment after the service has been received

so that I can have the access to confirm their payment and the system will give them a tab to place their opinion about their experience.

Acceptance criteria

Given: The client asked for a feature which will fulfil the purpose of billing and afterwards there will be a feedback tab in which the users will share their experience.

When the requested service is received by a user the system will open a tab where the user will be able to choose a payment method and afterwards they will get another tab in order to place their likes and dislikes.

Then a smooth transaction between the user and the service provider will be carried out without any interruption and to make the app more flexible for them, they can share their opinion in the feedback.
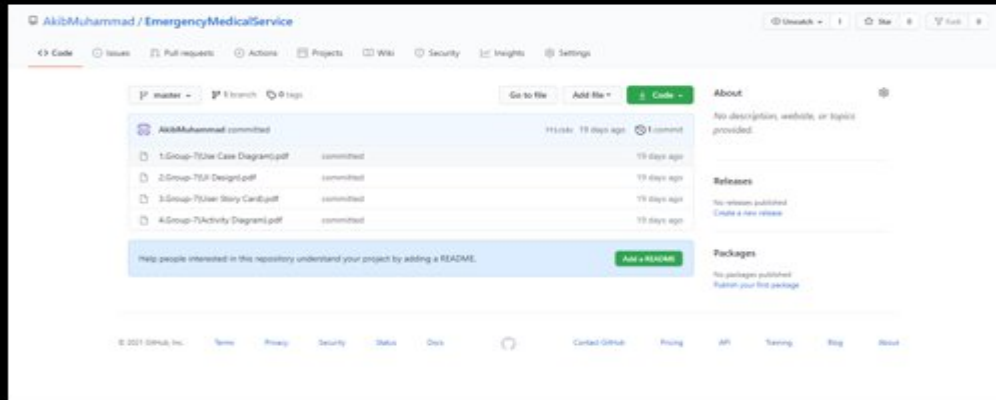
Title: Confirm & Process	Priority: High	Estimate: 1 day

As an *admin I will be in charge of confirming the requests of the users by sending the location and phone number of the user to the active service provider.*

I want to perform a task where after confirming the process will find an active service provider to provide the address and phone number of the user who confirmed the service .

so that I can accomplish the confirmation of the users and provide them the emergency service within very short notice.

Acceptance criteria

Given: The client demanded a confirm and process functionality which will be confirmed by the admin and after the confirmation the user's information will be send to the service provider for the reaching purposes.

When the requested service is confirmed from a user the system will give the service provider the access to the user's information.

Then a smooth transition between the user and the service provider will be carried out without any interruption.

Title: Tracking	Priority: Low	Estimate: 5 hours

As an *admin the observation of the tracking will be acknowledged where there will be the status or location of the service provider and the user who applied for the service be provided the access to visualize it.*

I want to perform a task where the user can be informed about the service provider's position on the layout of that specific area

so that I can have the access of the service provider's status to keep the user updated.

Acceptance criteria

Given: The demand of the tracking was mentioned where the user gets the privilege to visualize the location of the service provider.

When the requested service is confirmed from a user the system will give the service provider the access to the user's information.

Then a smooth transition between the user and the service provider will be carried out without any interruption.

USER STORY CARD

JIR

GIT

CLASS DIAGRAM

PROJECT SCHEDULING

Emergency Medical Service

A: Requirement Analysis:
1) Identify needs and benefits
2) Meet with customer
3) Identify needs and set requirement parameter
4) Create Project and assigning task in Jira

B : Overall Design:
1) Draw Use Case Diagram
2) Draw Activity Diagram
3) Draw Class Diagram
4) Make Mock Design

C: Coding:
1) Create Git Repository for codes
2) Coding Module 1
3) Coding Module 2
4) Coding Module 3

D: Integration Phase:
1) Prepare integration test plan
2) Design Test Scenarios and Cases

E: System Testing:
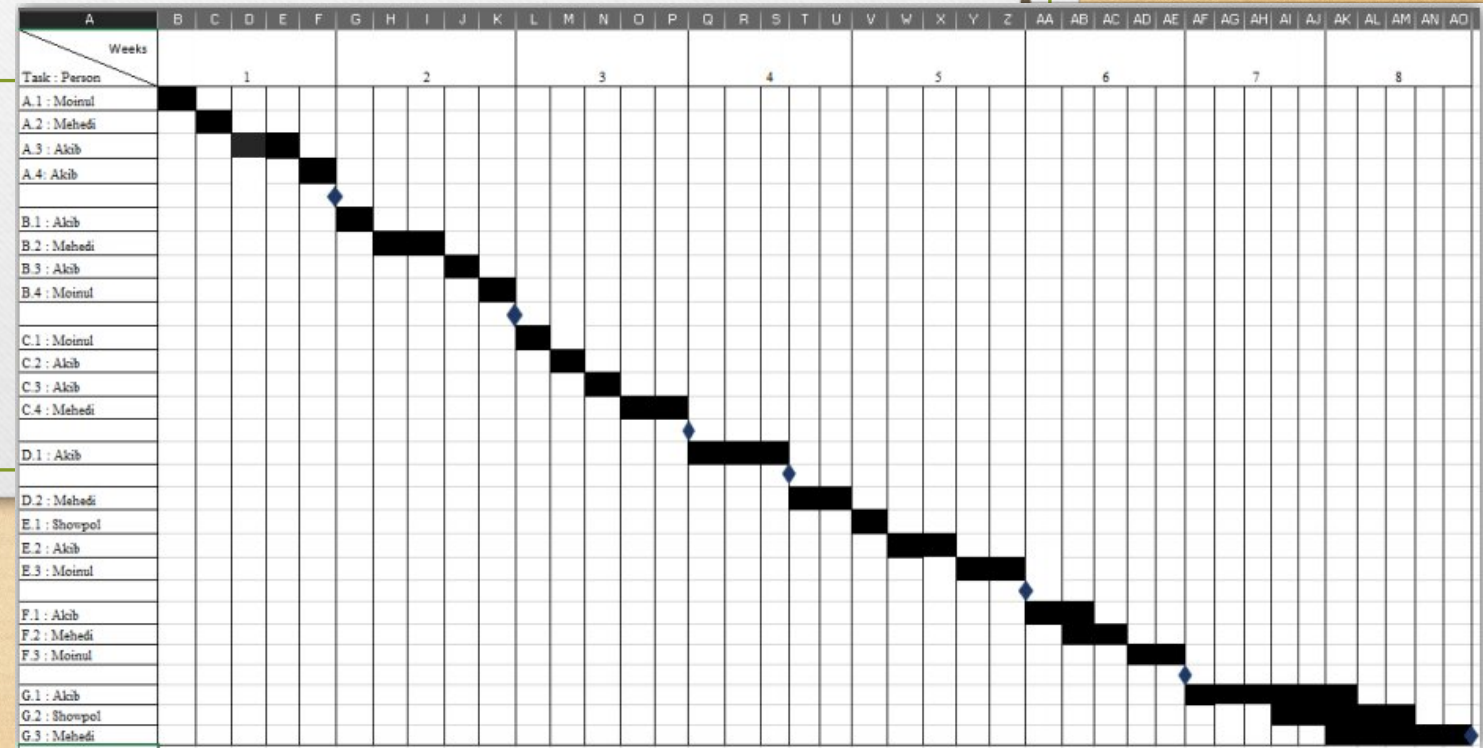1) Usability Testing
2) Load Testing
3) Functional Testing

F: Maintenance:
1) Corrective Maintenance
2) Adaptive Maintenance
3) Perfective Maintenance

G: Documentation:
1) Design Documentation
2) Code Documentation
3) User Documentation

Project title: Emergency Medical Service

Constructive Cost Model(CoCoMo):

Project Type: Organic

Project Estimation:

Coefficient<Effort Factor> : 2.4

SLOC : 28,000

P(as per organic) : 1.05

T(as per organic) : 0.38

PM(Person Month) : $2.4*(28,000/1,000)^{1.05}$

 $= 79.38$

DM(Development Time): $2.50*(PM)^T$

 $= 2.5*(79.38)^{0.38}$

 $= 13.18$

Required Number of People(ST= PM/DM):

 $= 79.38/13.18$

 $= 6.02$

 $= 6$

Budgeting:

Total Working Days = 22*13.18

 = 289.96 days

 = **290** days

 = 290*8 hour

 = **2320** hour

Salary per hour: 1000 Taka

Total Salary=2320*1000=23,20000

Requirement Analysis per hour: 600 taka

Total Requirement Analysis cost= 15*8*600=72,000 Taka [15 days total, 8 hour per day]

Maintenance Cost per hour: 3000Taka

Total Maintenance=4*4*3*3000=14,4000 [4 hour per week,3 months]

EFFORT ESTIMATION

Work Space rent per month: 40000 taka

Total Rent cost= 40000*5=20,0000 Taka

Salary	23,20000/-
Requirement Analysis	72,000 /-
Transportation Cost	49,000/-
Maintenance (3 months)	14,4000/-
Work-Space rent +Utility	2,50,000/-
Training and Hardware	10,0000/-
Margin profit [25%]	73,3750/-
Sum-up	**36,68750/-**

Budgeting

Thank You