



SCSJ2203: Software Engineering

Compiled Version

UTM ALIS

Version 5.0

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Software Engineering Department, School of
Computing

Prepared by: QuadSquad

Revision Page

a. Overview

The existing system works by storing data from multiple servers in a database. The data collected will be used to produce a comprehensive report and statistic. In addition, if the end-user requests for something, the database will send the relevant information requested by the end user. The servers take information from UTM Space, UTM Franchise Student Database and UTM Database. The existing system has a considerable amount of features, the following are some: News, Events Contribute/Donate Now, Career, Facility Reservation, Check Reservation, Join the site, Find a friend, Forum, Update my details.

b. Target Audience

UTM Alumni Students, CICT UTM, UTM Alumni Department, Alumni Associates, UTM Board of Management, Faculties or Schools, Industrial Organizations

c. Project Team Members

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MD Karimul Hasan

d. Version Control History

Version	Primary Author(s)	Description of Version	Date Completed
1.0	1. Nik Adam Danish Bin Nik Joharris 2. Bellarina Chew 3. Nursyahira Sabrina Binti Mohd. Sukri 4. MD Karimul Hasan	Initial document creation	
2.0	1. Nik Adam Danish Bin Nik Joharris 2. Bellarina Chew 3. Nursyahira Sabrina Binti Mohd. Sukri 4. MD Karimul Hasan	Use case model, use case specification documentation,	7/4/19

		activity diagram and sequence diagram of the system.	
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1. Introduction

1.1 Purpose

The purpose of this user requirement definition is to describe in detail about the proposed UTM ALIS. This document describes the functions, as-is process flow, to-be process flow, business rule. This document is meant to convey an in-depth understanding of the entire proposed system and also its flow.

The audience (stakeholder) for the user requirement document are:

1. UTM Alumni
2. CICT UTM
3. UTM Alumni Department
4. Alumni Associates
5. UTM Board of Management
6. Faculties or Schools
7. Industrial Organizations

1.2 Scope

The software product to be produced is UTM ALIS, a web-based application. This product acts a platform for alumni to connect with each other. The product features include Find a friend feature which allow alumni to connect to their old friends in UTM automated facility booking system that allows alumni or public users to book facilities online, job searching which will provide more job opportunity for UTM alumni, it will also feature report and statistic generation for UTM top management further use. The scope of the system however, does not cover the integration with social websites. The product helps alumni to connect with their old friends from the campus within clicks.

1.3 Definitions, Acronyms and Abbreviation

Alumni - Men and women who have completed their studies at a college or university

UTM - Universiti Teknologi Malaysia

ALIS - Alumni Integrated System

1.4 References

ALUMNI | meaning in the Cambridge English Dictionary. (n.d.). Retrieved from <https://dictionary.cambridge.org/dictionary/english/alumni>

1.5 Overview

A web-based application called UTM-ALIS will be improved for the convenience of the stakeholders. It is expected to provide information of other alumni, easy facility reservation, latest job vacancies and report generation. This will include the descriptions of specific requirements, explanation about actors and functionalities. Details of architecture designs used, test case based on software testing will be included. The new UTM ALIS will help the Alumni to stay connected with their alma-mater.

2. Specific Requirements

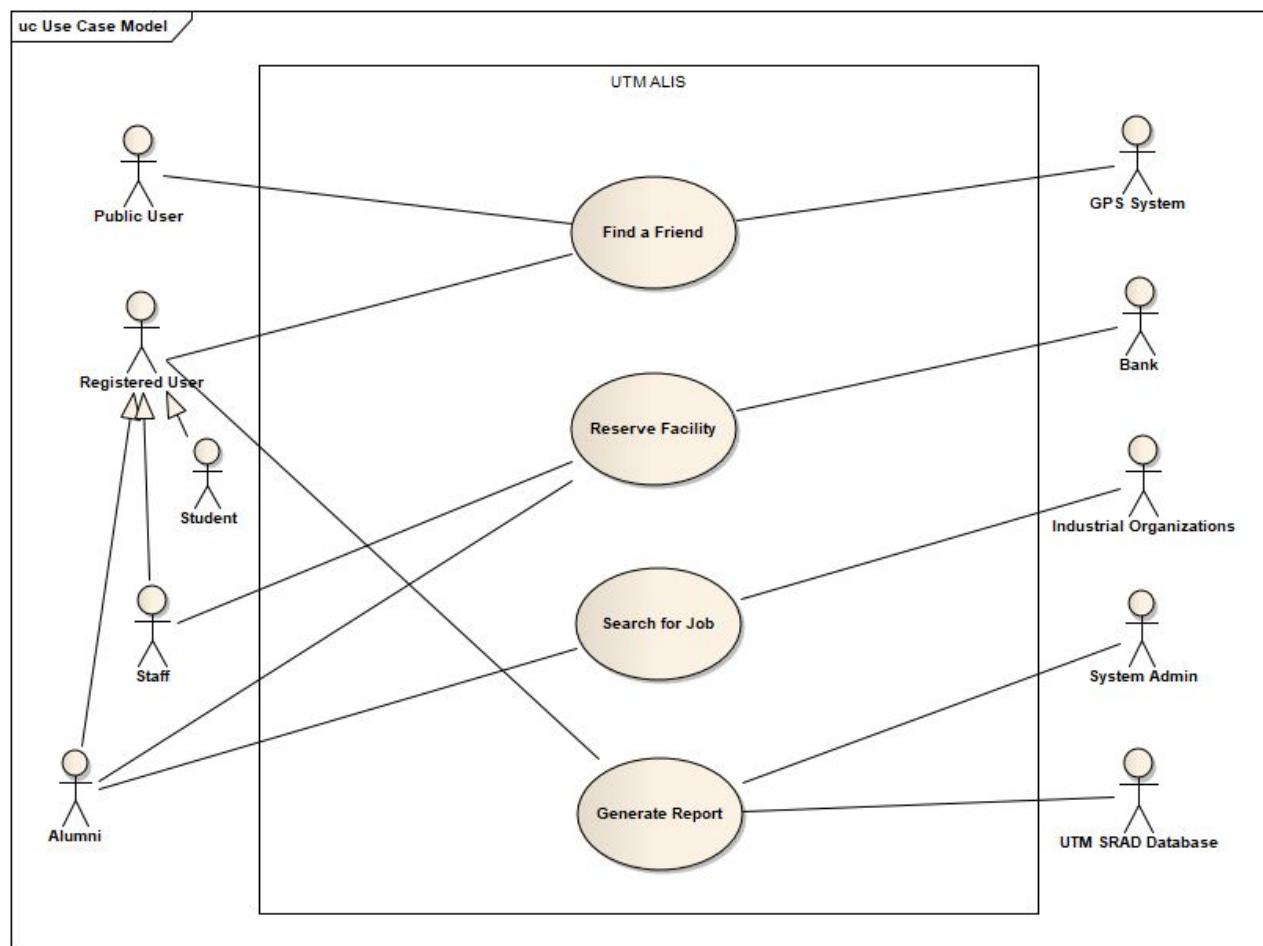


Figure 2.1: Use Case Diagram of UTM-ALIS

The existing system have Career, Facility Reservation, Check Reservation, Find a Friend and Statistics features.

- Career feature allows alumni to browse through job opportunities offered by companies.
- Facility Reservation allows individuals - students, alumni, and outsiders - to reserve facilities in Rumah Alumni.
- Check Reservation allows individuals - students, alumni, and outsiders - to view and update their reservation.
- Find a friend allows alumni to find information about another alumnus around the world. It works by logging into the system, followed by typing in relevant details about the alumnus they are trying to find.
- Statistics allows alumni to view statistics on the number of graduates from all country and etc.

For the proposed system, there will be Find a Friend, Facility Reservation, Job Searching and Report Generation.

- Facility Reservation:
 - By this function the user will be able to create new reservation for a facility.
 - User will be able to check reservation status.
 - And can pay for their reservation through online banking or card payment.
- Find a Friend:
 - By this function the user will be able to view Alumni contact details.
 - User will be able to find nearby friends if they have a login credential.
 - With their account the user will also be able to locate alumni location or determine alumni coordinates.
- Job Searching:
 - By this function the user will be able to search for jobs, prepare their resumes and submit it directly to their desired industry.
 - User will also be able to write to their desired industry's forum page if they have any questions or enquiries.
 - And the industries will be able to post their job advertisements.

- Report Generation:
 - Users will be able to view two different types of statistics.
 - With Simple statistics users can view the report of number of alumni and their job status.
 - With comprehensive reports they can view endowment funds and employability reports.
 - If the users want they can download the statistics reports and save it for future use.
 - System admin can log in and either add , edit or delete any statistics if necessary.

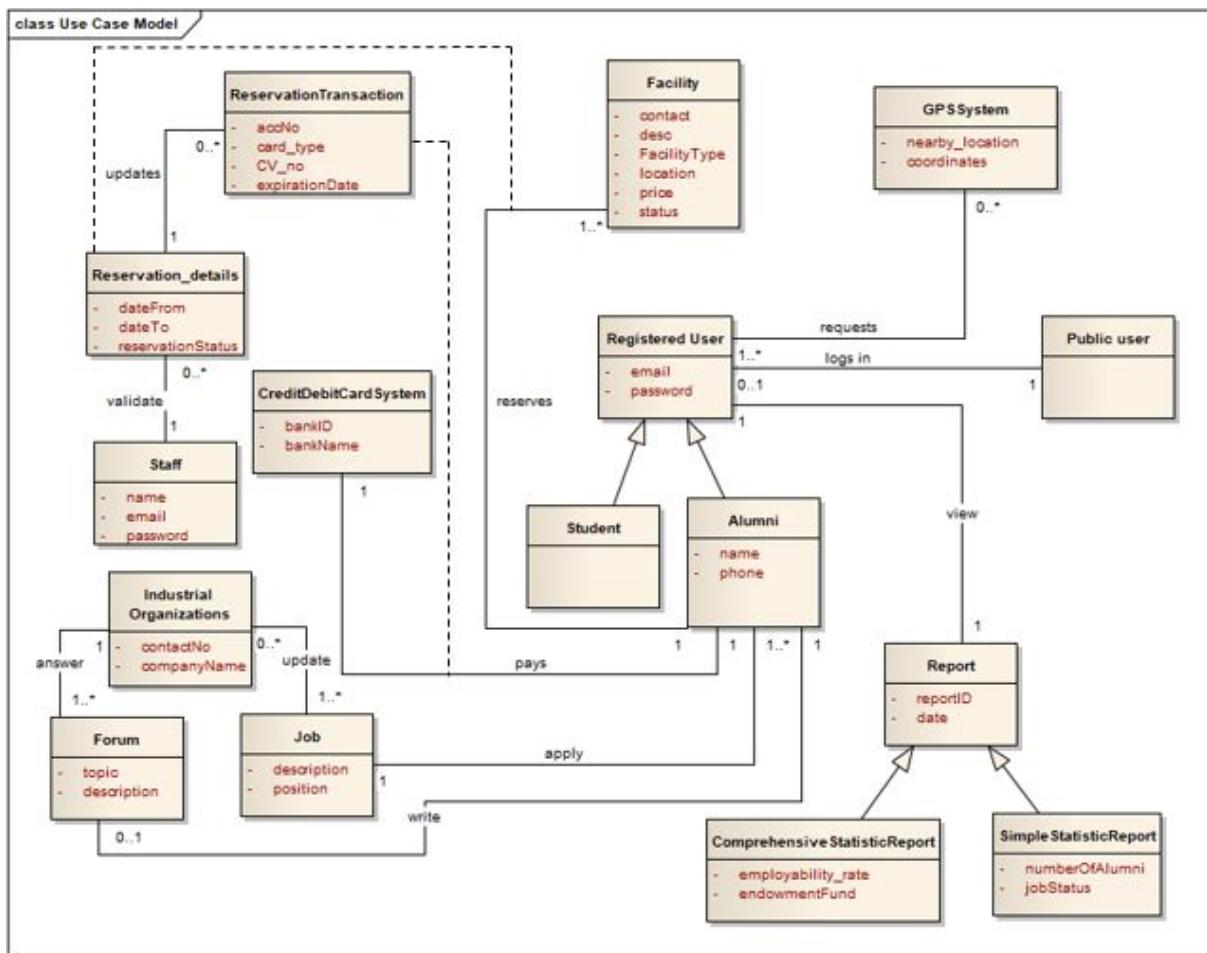


Figure 2.2: Domain Model of UTM-ALIS

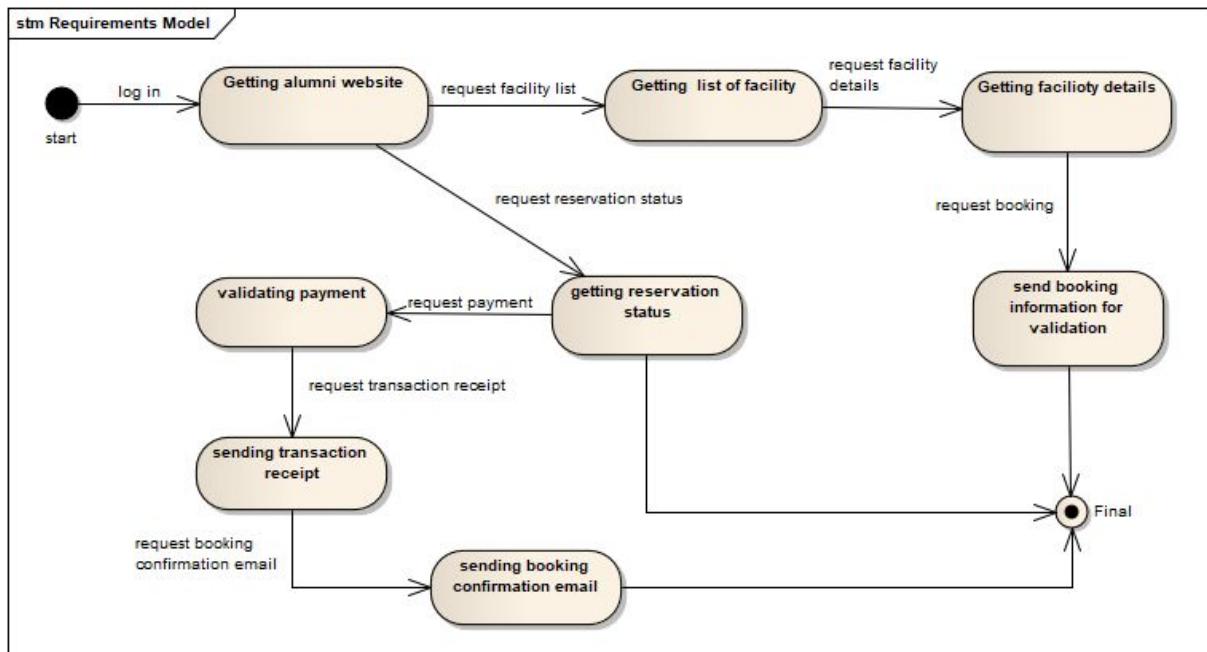


Figure 2.3: State Machine Diagram of UTM-ALIS

2.1 External Interface Requirements

This section shall describe the interface requirements for the UTM ALIS system. They specify the way user shall interact with the system as well as define the necessary hardware interfaces and communication interfaces required by the software to store and retrieve data.

2.1.1 User Interfaces

The user interface shall follow web based UI style and functionality conventions. The design will be keep simple so that the user will easily understand on how to use it. The colour use will followed UTM brand color. The interface has a menu on the top of the screen, which will allow users to easily switch between the different parts of the system. In the homepage left-top it will have UTM logo and Alumni written. The first menu is “Find a Friend”. The second menu item will be “Reserve Facility”. The third menu item named “Search for Job”.. Finally in the last menu item named “Statistical Report” users can view the statistics and reports and under that there will be two buttons, one to view more comprehensive statistics another will prompt the user to download the statistics that they are viewing.

2.1.3 Software Interfaces

The following software are needed along UTM-ALIS:

Name : Google Maps

Purpose : To locate friends

Name : Google Calendar

Purpose : To select date for reserving facility.

2.1.4 Communication Interfaces

All data transferred between the servers and the individual devices shall use TCP/IP networking protocol or an Ethernet or a WIFI connection. This system is not closed thus can be access through any browser from anywhere in the world and has firewall to protect from unauthorised access.

2.2 System Features

2.2.1 UC001: Use Case Find a Friend

Table 2.2.1.1: Use Case Description for Find a Friend

Use case: Find a Friend
ID: UC001
Actors: Registered User, Public User, GPS System
Preconditions: To find nearby friends, user has to log in the system
Flow of events: <ol style="list-style-type: none">1. The use case begins when public user types in the details of alumni and clicks search.2. Public user is given list of different alumni profiles and clicks on the desired alumni profile. If no alumni profiles are found, execute exception 1, else continue with normal flow.3. Public user retrieves alumni contact details.4. Public user clicks on “Find nearby friends”. If public user is not a registered member, execute exception 2, else continue with normal flow5. Registered user sets “Search Distance” then clicks search6. GPS System finds alumni relative to “Search Distance” and retrieves coordinates. If no alumni nearby found, execute exception 3, else continue with normal flow.7. Registered user retrieves coordinates8. The use case ends when the registered logs out of the system.
Exception: <ol style="list-style-type: none">1. No alumni found.<ol style="list-style-type: none">1.1. The system will display “No results found”.1.2. Public user can choose to find new alumni or exit the system1.3. The use case ends2. Cannot access “Find nearby friends”.<ol style="list-style-type: none">2.1. The system will display “You have to log in to access this feature”.2.2. Public user can choose to “Find a Friend” or exit the system.2.3. The use case ends.3. No nearby alumni found<ol style="list-style-type: none">3.1. The system will display “No results found”.3.2. Public user can choose to find new alumni or exit the system3.3. The use case ends
<i>View contact alumni details</i>

Postconditions:

1. Alumni contact details must be available
2. Alumni

Figure 2.2.1.2: Sequence Diagram of view contact details

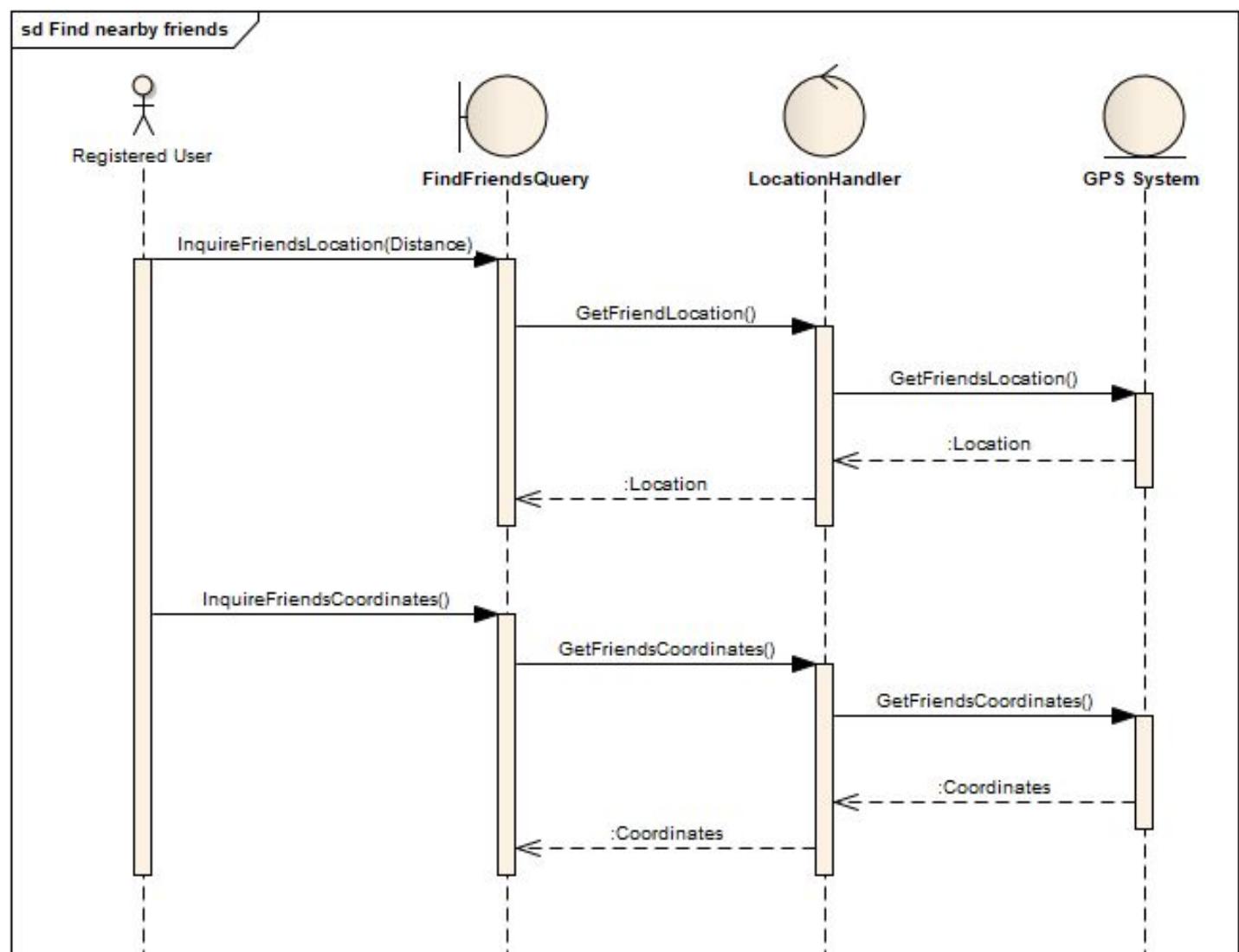


Figure 2.2.1.3: Sequence Diagram of find nearby friends

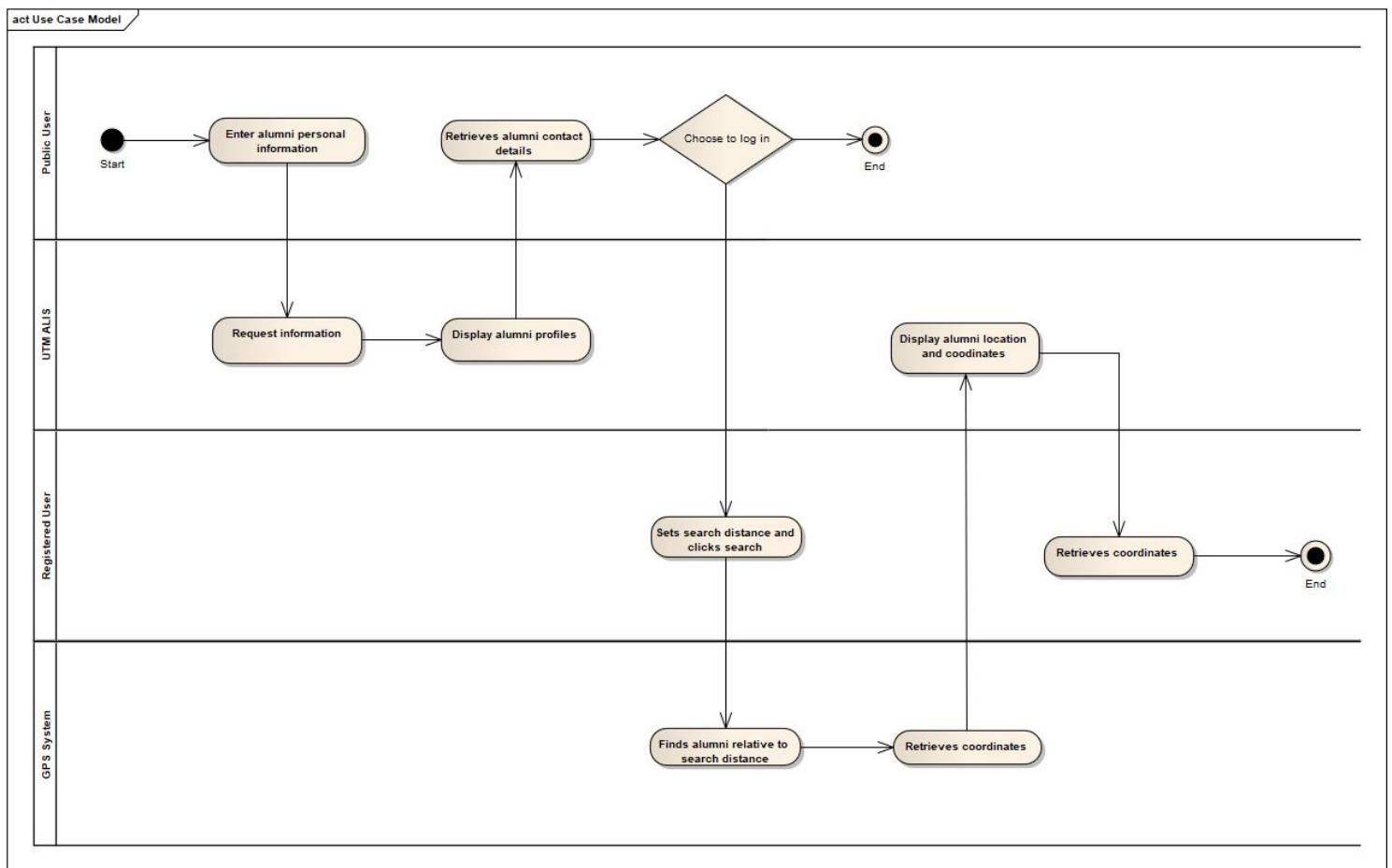


Figure 2.2.1.4: Activity Diagram of Find a Friend

2.2.2 UC002: Use Case Reserve facility

Use case: reserve facility
ID: UC002
Actors: Alumni, Bank, Staff
Preconditions: (1) Alumni must login as a registered UTM-ALIS member.
<p>Flow of events:</p> <ol style="list-style-type: none"> 1. The use case begins when Alumni select date from, date to and facility type. 2. Alumni selects facility from facility list. 3. Alumni enters personal information on required fields. 4. Alumni submits reservation request. 5. Staff validate reservation. 6. Alumni clicks “Check On reservation” button. 7. Alumni selects reservation from list. If reservation status shows “rejected” or “pending”, then execute exception flow 2. Else, the normal flow proceeds to flow of events 8. 8. Alumni enters card information to pay. 9. Bank verifies Payment. 10. The use case ends when Alumni receive transaction receipt.
<p>Exception:</p> <ol style="list-style-type: none"> 1. No facility available on desired date <ol style="list-style-type: none"> 1.1 System display error message. 1.2 Proceed with normal flow 1. 2. Reservation is rejected or still pending <ol style="list-style-type: none"> 2.1 Alumni clicks “return home”. 2.2 The use case ends.
<p>Postconditions: Successful completion</p> <ul style="list-style-type: none"> • The reservation must be associated to the Alumni. So reservation is confirmed. • Booking confirmation email must be sent to Alumni email.

Table 2.2.2.1: Use Case Description for Reserve Facility

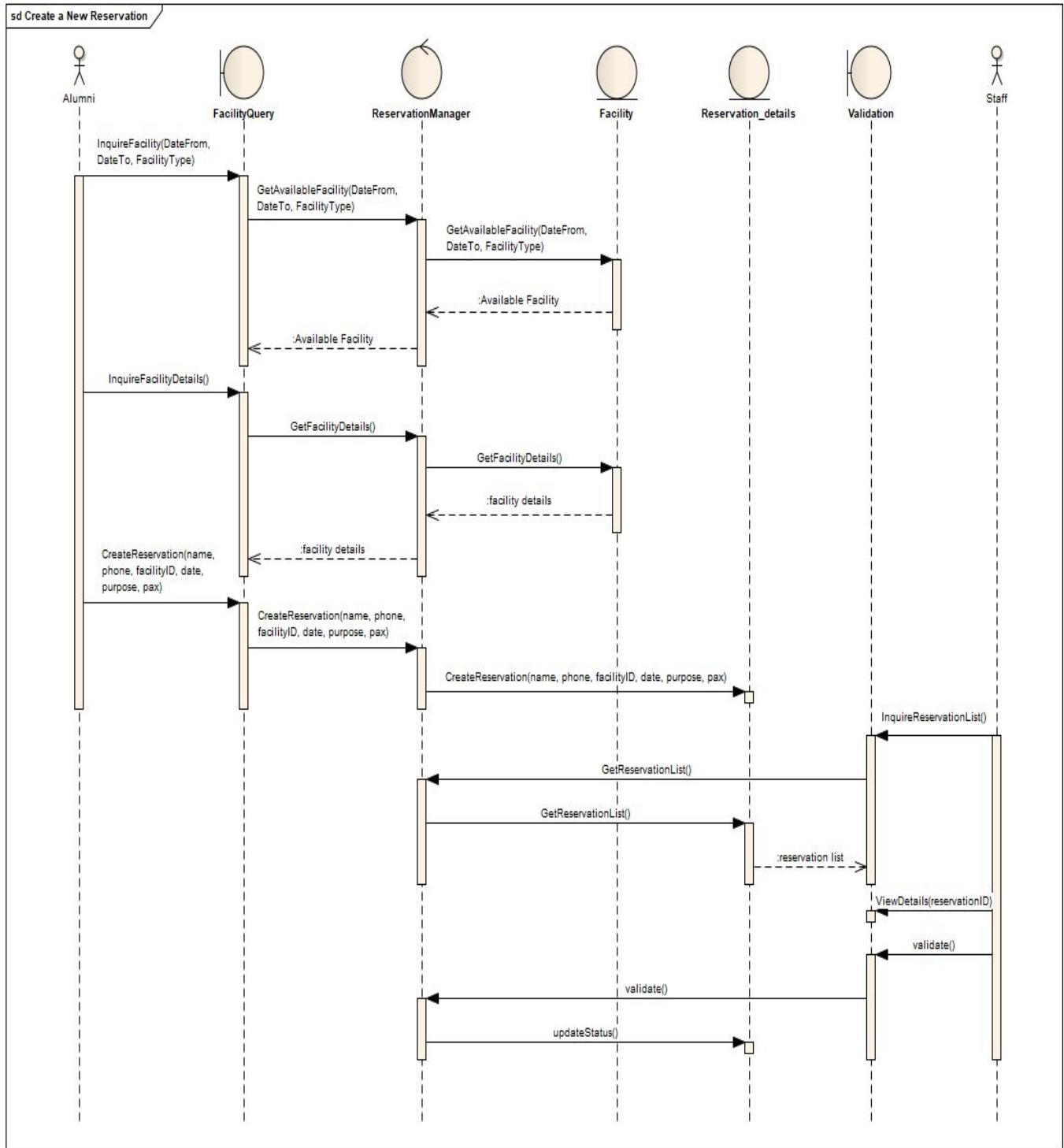


Figure 2.2.2.2: Sequence Diagram of create reservation

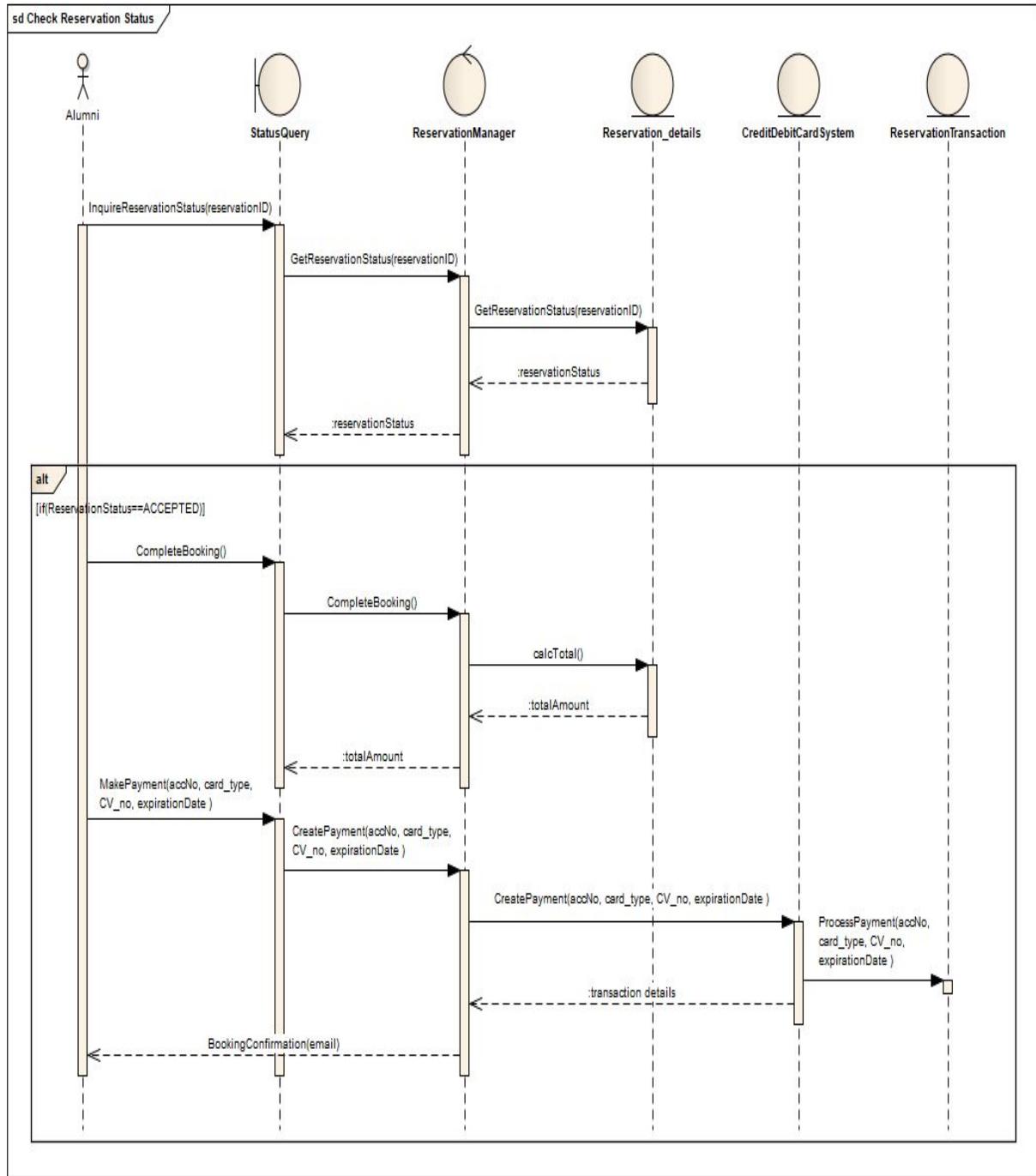


Figure 2.2.2.3: Sequence Diagram of Check reservation status

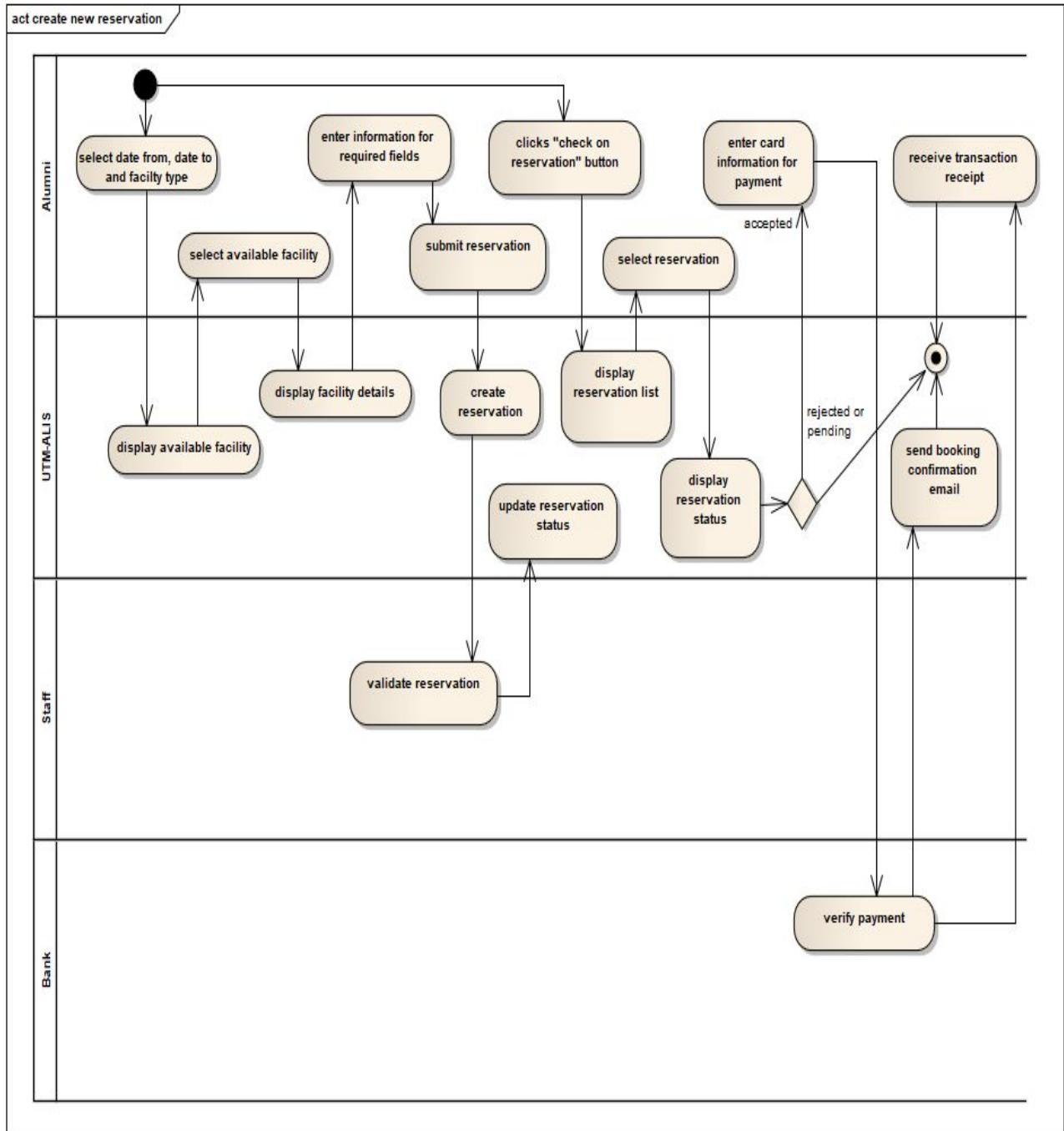


Figure 2.2.2.4: Activity Diagram of reserve facility

2.2.3 UC003: Use Case Search for Job

Use case: Search for Job
ID: UC003
Actors: Alumni,Industrial Organizations
Preconditions: Alumni and Industrial Organizations need to login in UTM ALIS.
Flow of events: <ol style="list-style-type: none">1. The use case begins when Alumni and Industrial Organizations need to browse to UTM ALIS and select Search for Job button. To view forum Exception 1 is performed.2. Industrial Organizations select “Job Post” to add job vacancy.3. Alumni select “Job Post” to view available job position. If Alumni wants to apply for the job, Exception 2 is performed.4. The use case end.
Exception: <ol style="list-style-type: none">1.1 Alumni select “Forum” to write or initiate topic for Industrial Organizations to answer.1.2 Industrial Organization will be notified to answer in the forum.2.1 Alumni select “Prepare Resume” to make the resume according to template.2.2 Alumni select “Submit Application” after completing the Resume.2.3 Alumni that has been selected for interview will be notified through email.
Postconditions: Successful completion <ul style="list-style-type: none">• There is an active discussion on the forum• Alumni successfully applied for job.

Table 2.2.3.1: Use Case Description for Search for Job

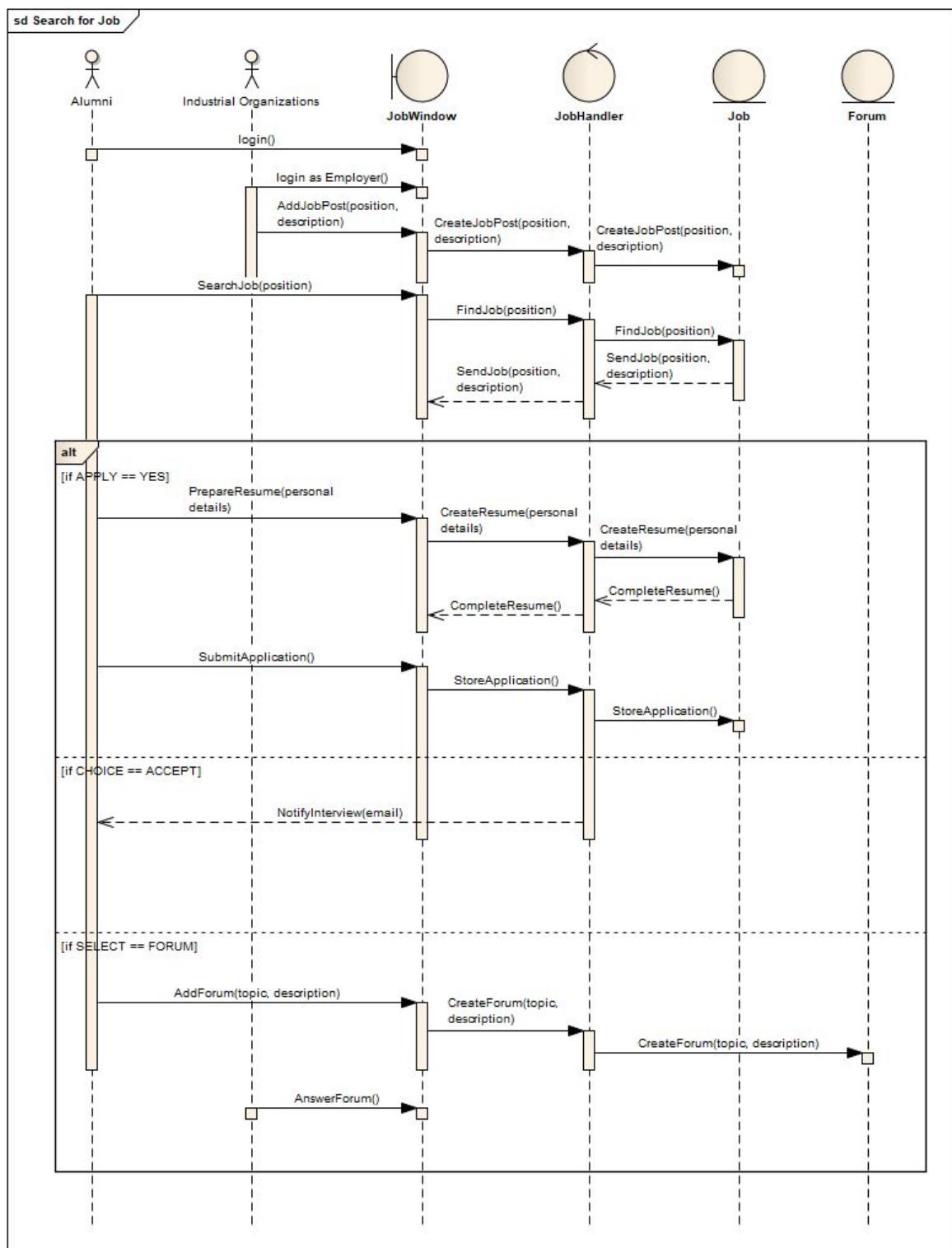


Figure 2.2.3.2: Sequence Diagram of Search for Job

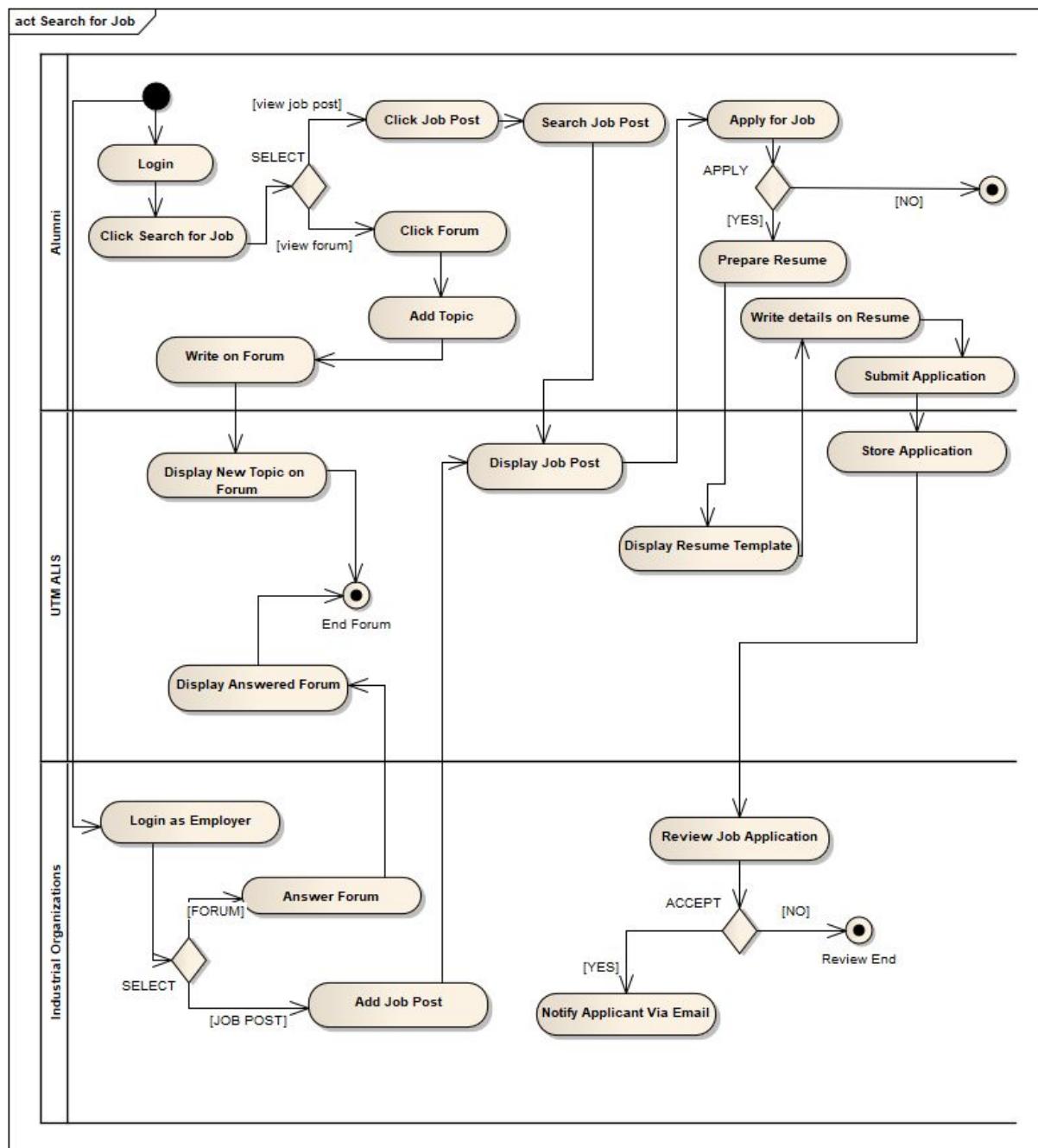


Figure 2.2.3.3: Activity Diagram of Search for Job

2.2.4 UC004: Report and Statistics

Use case: Report and Statistics
ID: UC004
Actors: Alumni, Student, Staff, System admin
Preconditions: System admin has to login in order to manage statistical reports.
Flow of events: <ol style="list-style-type: none">1. The use case begins when Alumni browse to UTM ALIS and select simple statistics report. Then Exception 1 is performed.2. Alumni selects comprehensive statistics report. Then Exception 2 is performed.3. System admin selects manage statistical report.4. System admin chooses update from the menu. Exception 3 is performed.5. System admin chooses delete from the menu. Exception 4 is performed.6. System admin chooses edit from the menu. Exception 5 is performed.7. The use case ends.
Exception: <ol style="list-style-type: none">1.1 Alumni selects a simple statistics report from the simple reports list.1.2 Alumni can download the selected report in PDF.2.1 Alumni selects a comprehensive statistics report from the comprehensive reports list.2.2 Alumni can download the selected report in PDF.3.1 System admin updates old statistics report.4.1 System admin deletes old statistics report.5.1 System admin edits old statistics report.
Postconditions: Successful completion <ul style="list-style-type: none">• The user successfully downloads or views desired report

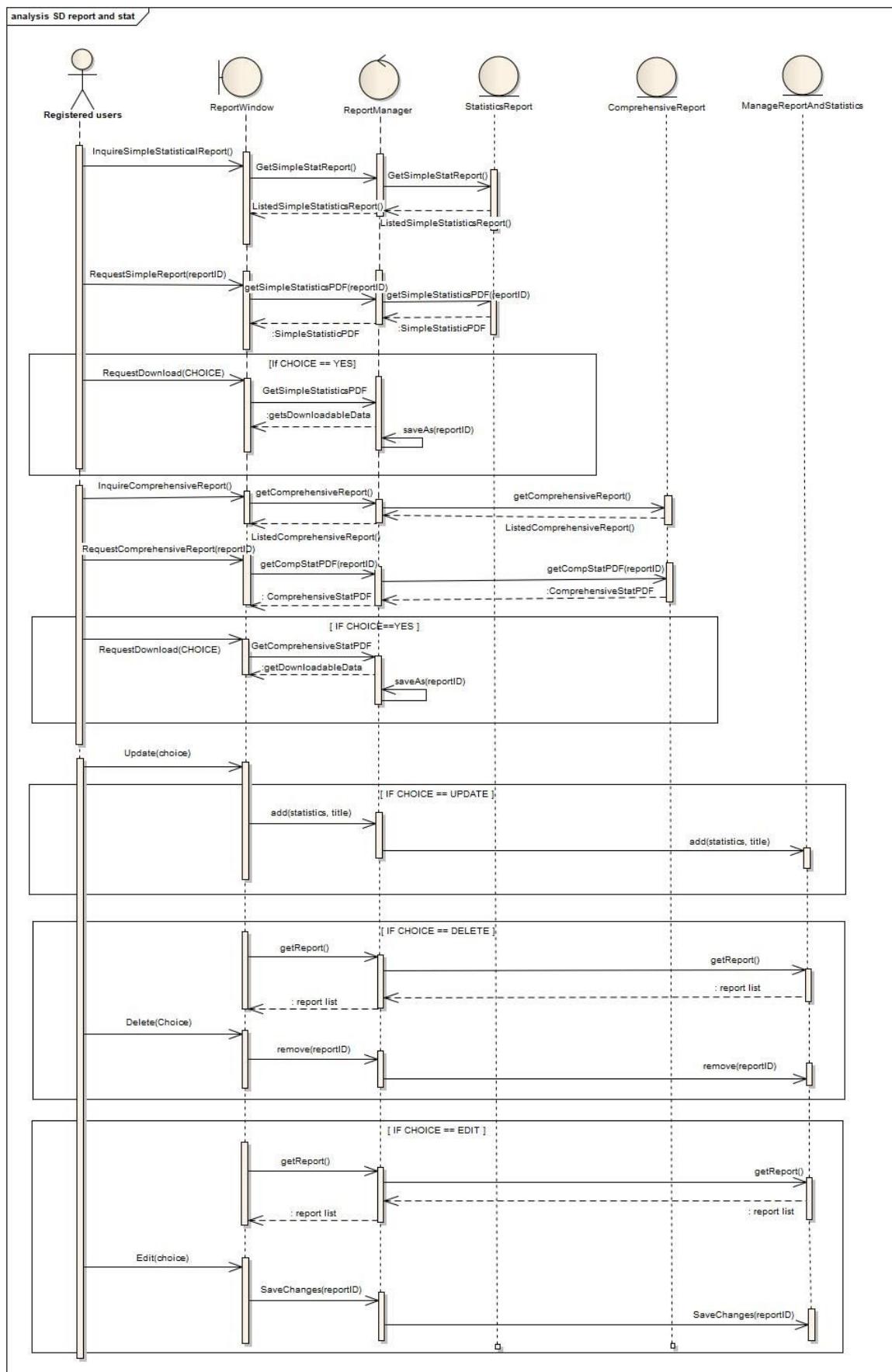


Figure 2.2.4.2 Sequence diagram for Report and Statistics

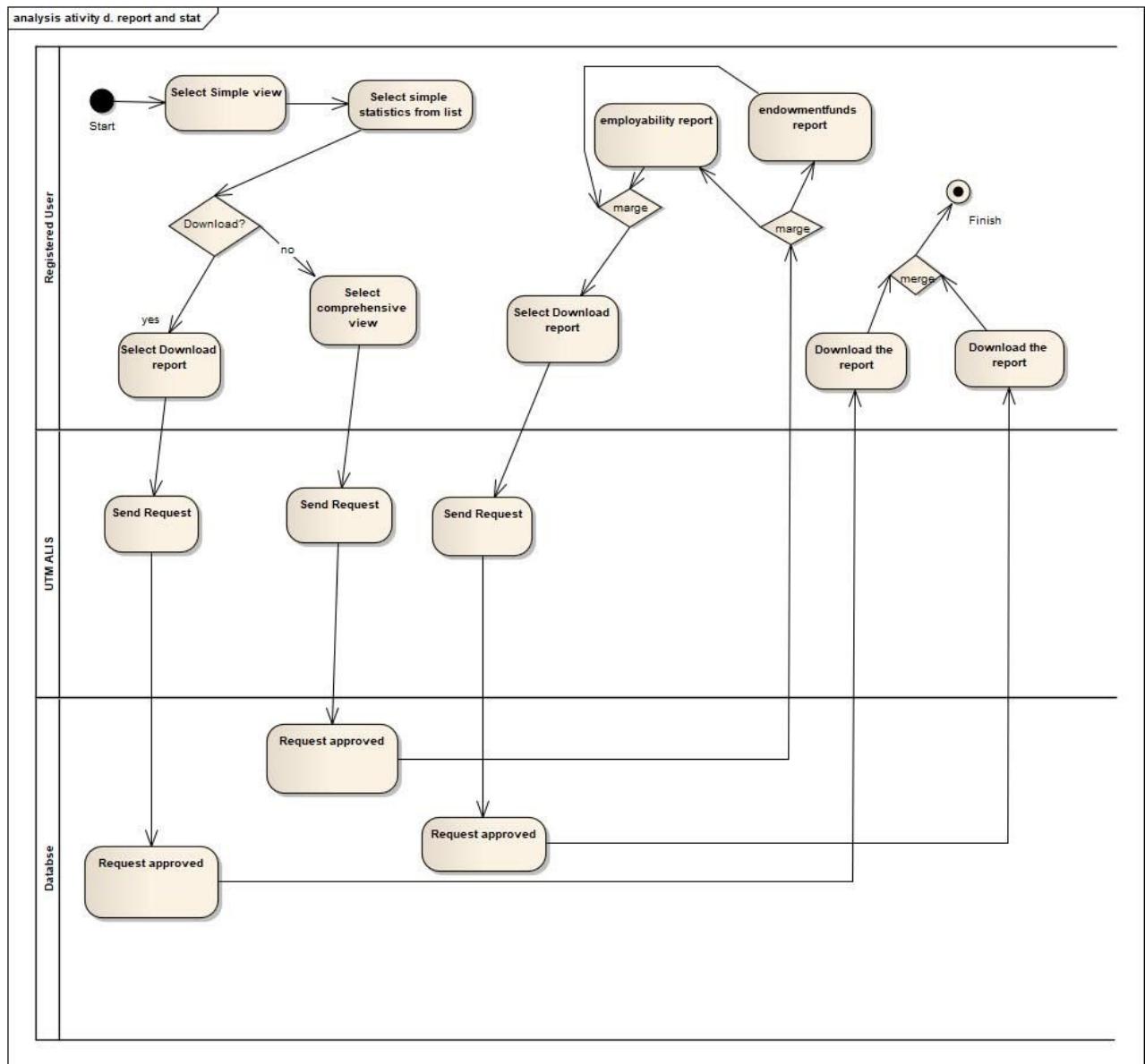


Figure 2.2.4.3 Activity diagram for Report and Statistics

2.3 Performance Requirements

Find a Friend

- The system shall be able to find searched alumni within 10 seconds

Reserve Facility

- The system shall load the form pages within 5 seconds.
- The system shall be secured so that information leakage won't occur.

Job Searching

- The system shall be able to refresh the forum less than 5 seconds.

Report and statistics

- The system shall be able to load the reports within 7 seconds.
- The latency between download button and downloading shall be maximum 10 seconds.

2.4 Design Constraints

- The budget of the system shall adhere to the budget of the set by CICT
- The system has to be completed before 2021
- The system has to follow the style guide UTM has agreed to
- The system has to follow the usability outlines UTM has agreed to
- The system has to follow the design principles UTM has agreed to
- The system has to be able to integrate with the other services, such as bank transfer, facility reservation, etc.

2.5 Software System Attributes

- The Find a Friend features will be able to detect nearby friend if they happen to be in nearby place.
- The Reserve Facility features allow Alumni to make payment online.
- The Search for Job features able to provide latest job post to Alumni and they can directly prepare resume and apply for the job in one place.
- The Statistical Report able to generate various report and can be downloaded.

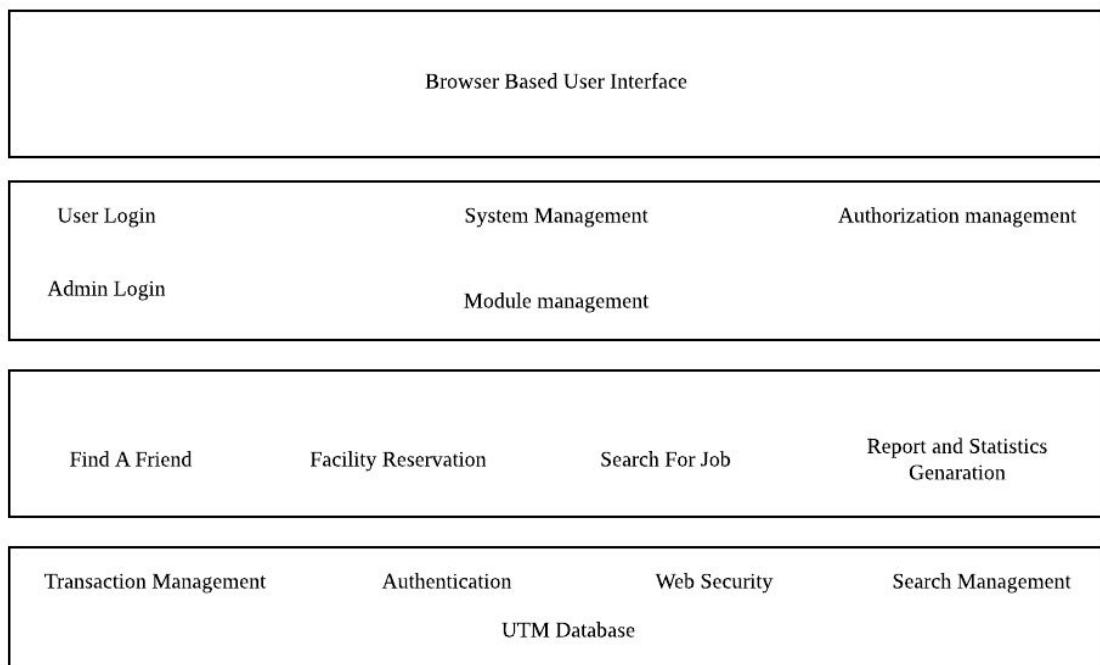
2.6 Other Requirements

- The system should be able to upgrade to available latest update.
- The system should protect Alumni from being scammed.
- The system should provide user friendly interface.

3. System Architectural Design

3.1 Architecture Style and Rationale

We are going to use Layered architectural design. We are using layered architectural design because this architecture is used when building new facilities on top of existing systems. Since we are building our system on top of an old one so we can use layered architectural design. Layered architecture is also used when the development is spread across several teams with each team responsible for a layer of functionality; when there is a requirement for multi-level security. Our system is also spread across several team members, and each team has to do a module or layer.



3.2 Component Model

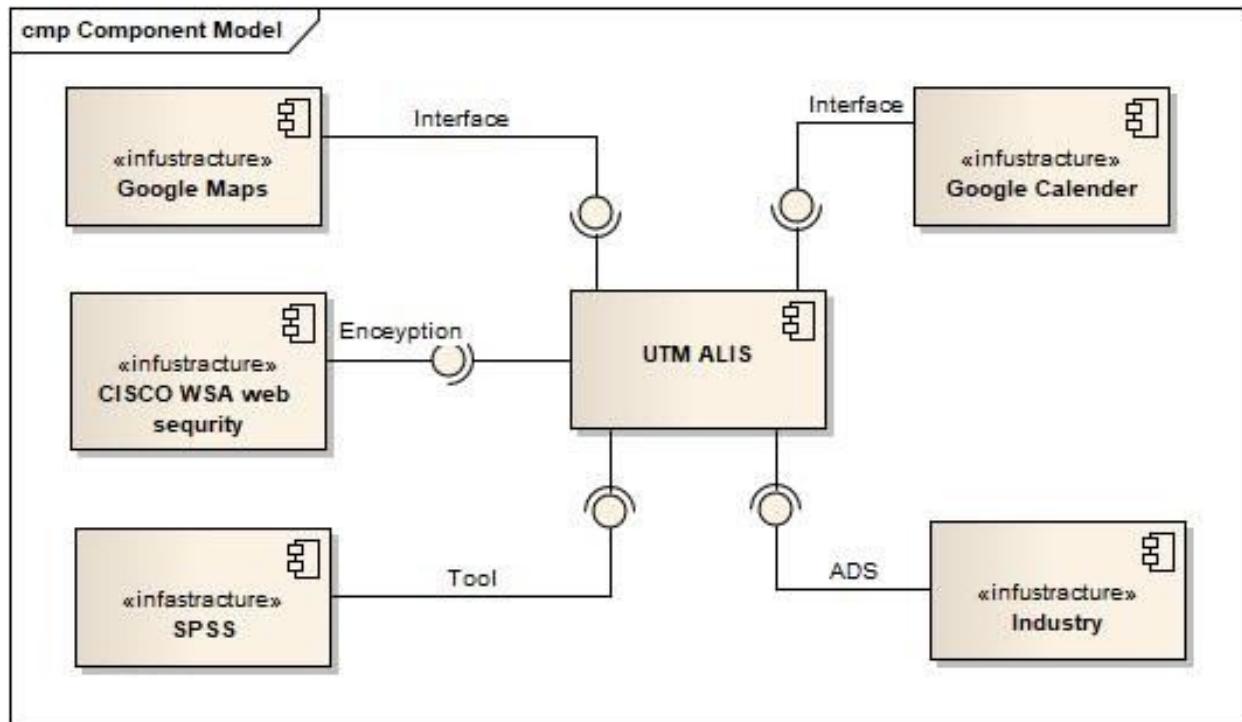


Figure 3.1: Component Diagram of UTM ALIS system

This component diagram consists of all the external devices and applications that have been used in UTM ALIS system. Google maps, Google Calendar, provides interface to the system. Cisco wsa web security provides security to the website from DDOS attacks. SPSS is used to generate statistics report and other external industry interfaces are connected to the system to provide ads for job.

4. Detailed Description of Components

4.1 Complete Package Diagram

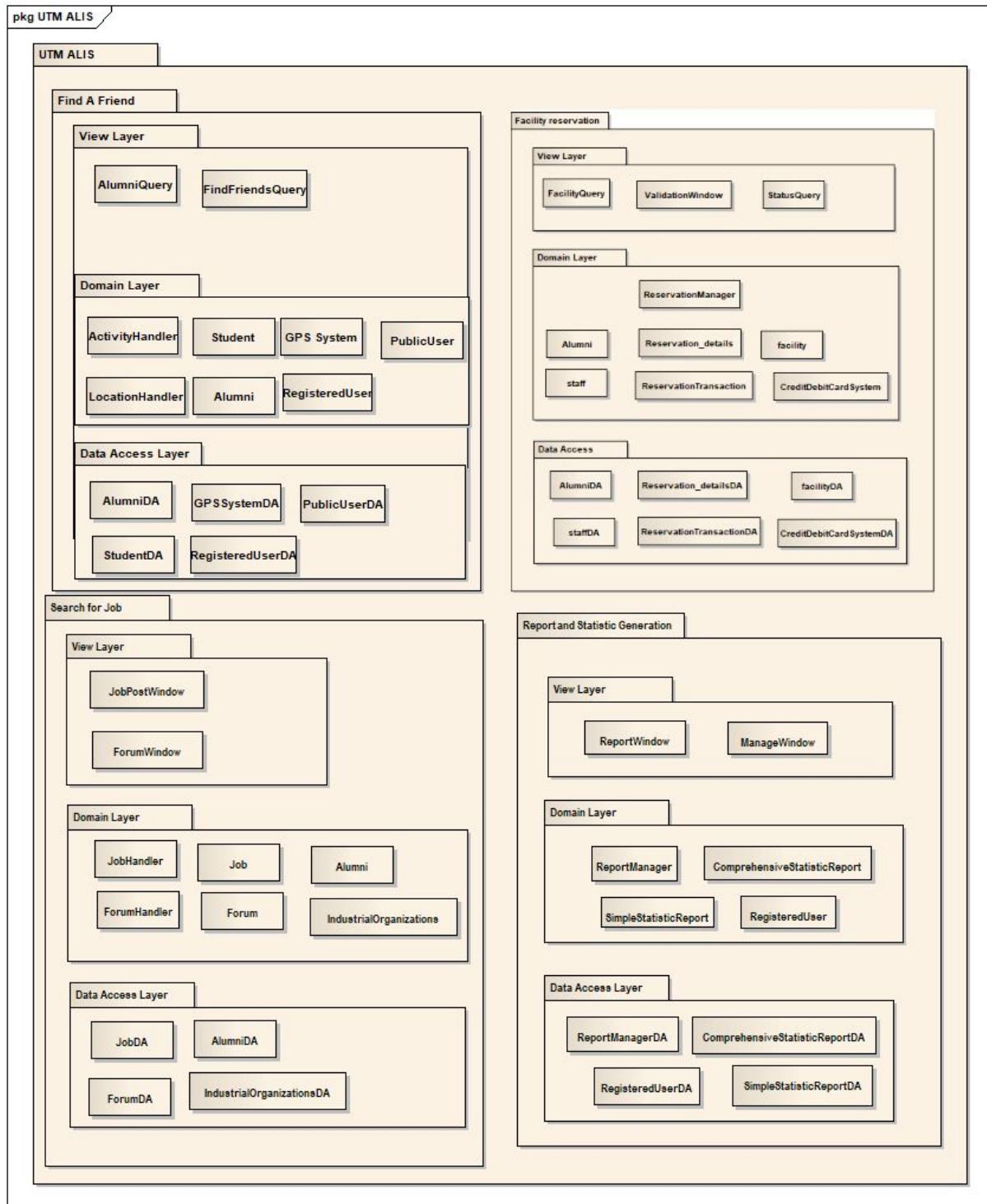


Figure 4.1: Package Diagram of UTM ALIS

The package diagram of UTM ALIS have 4 subsystem which consists of View Layer, Domain Layer and Data Layer. Inside the View Layer is the combination views of features, this will display the functions in each features. For the Domain Layer, there are handlers of all features. As for Data Access Layer, it represents the database included in each features of the system.

4.2 Detailed Description

4.2.1 P001: Find a Friend Subsystem

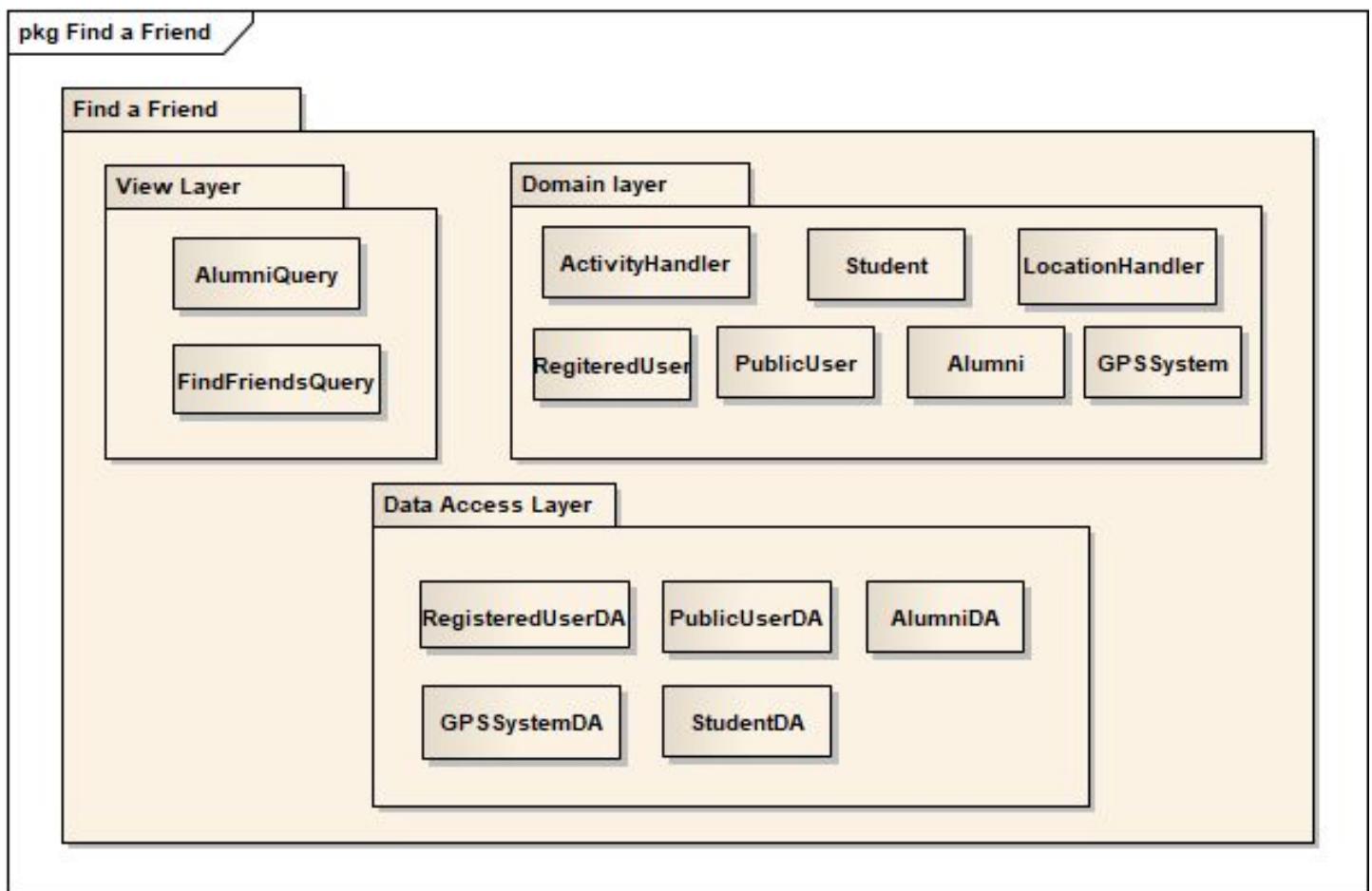


Figure 4.2: Package Diagram for Find a friend Subsystem

4.2.1.1 Class Diagram

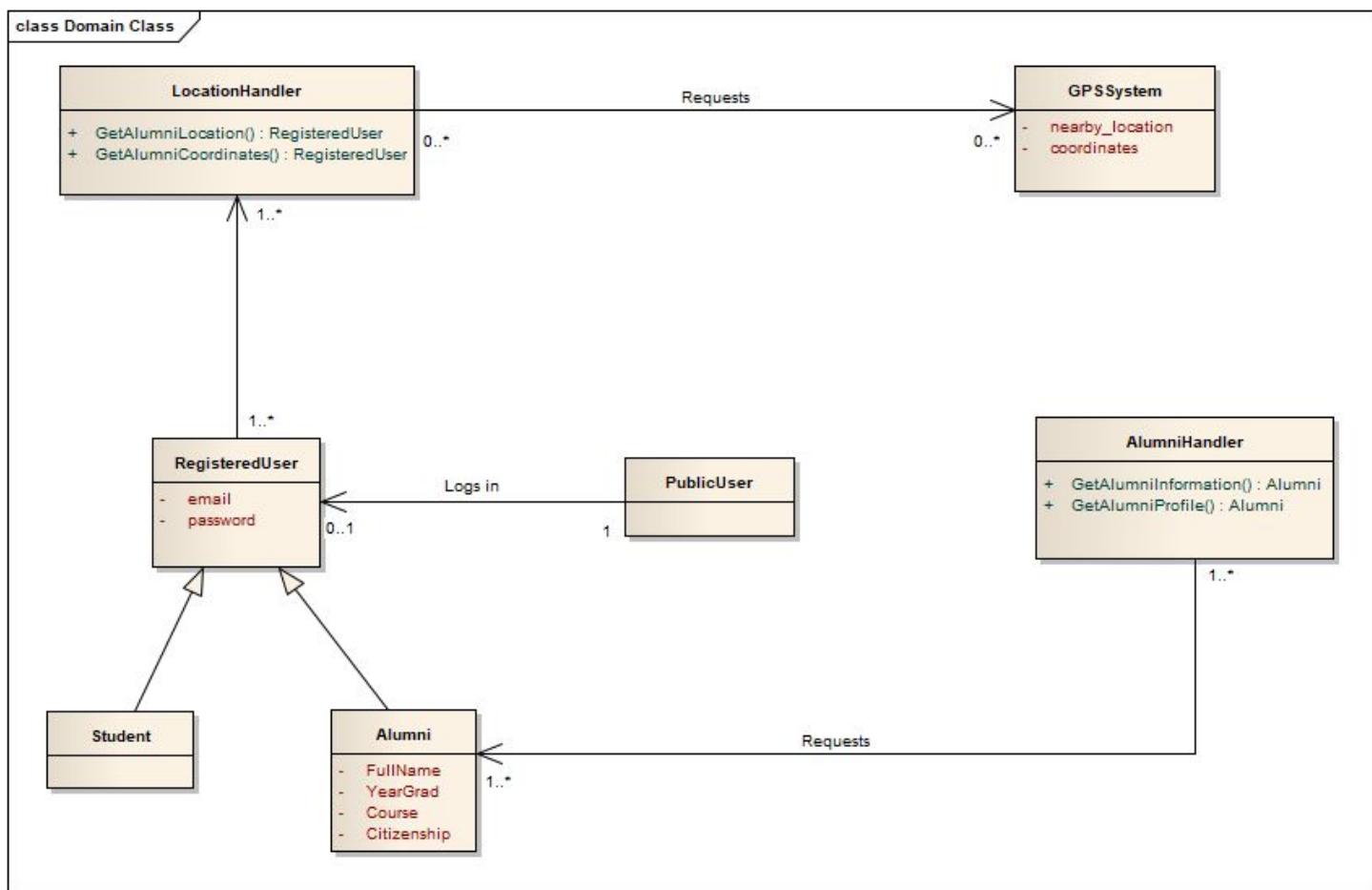


Figure 4.3: Class Diagram for Find a Friend Subsystem

4.2.1.2 Sequence Diagram

a) SD001: Sequence diagram for View Alumni Contact Details

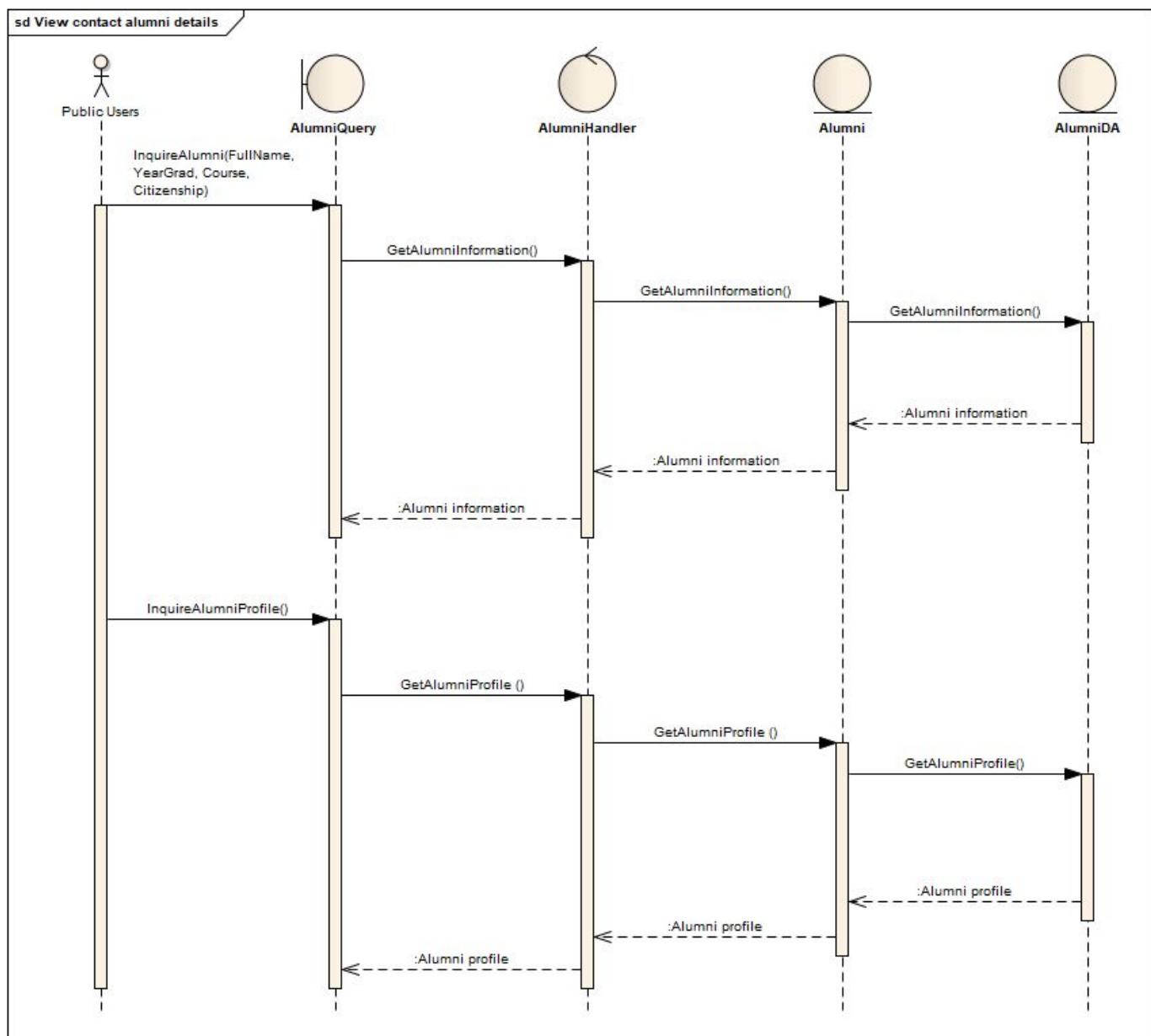


Figure 4.4: Sequence Diagram for View Alumni Contact Details

b) SD002: Sequence diagram for Find Nearby Friend

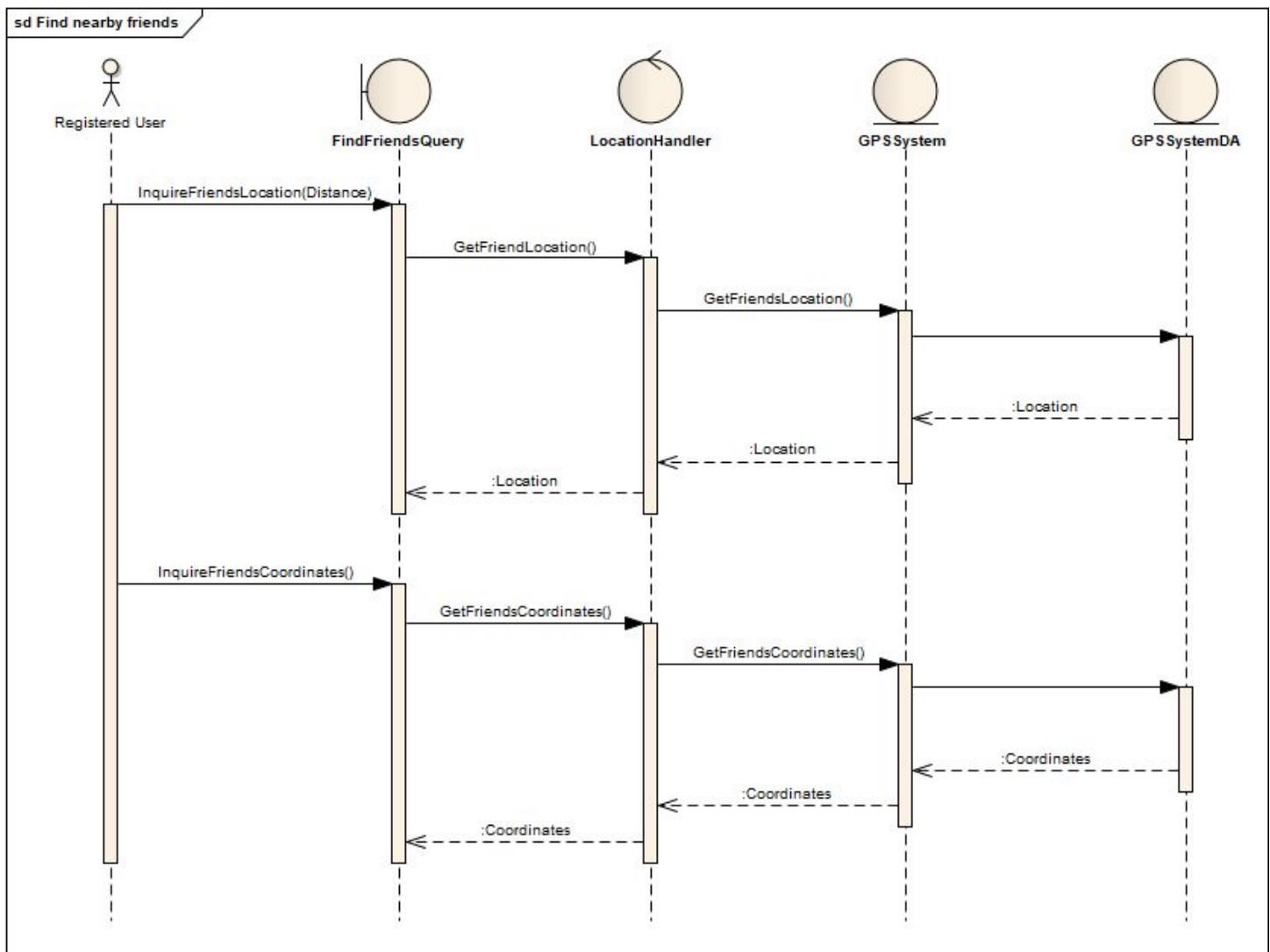


Figure 4.5: Sequence Diagram of Find Nearby Friend

4.2.2 P002: Facility Reservation Subsystem

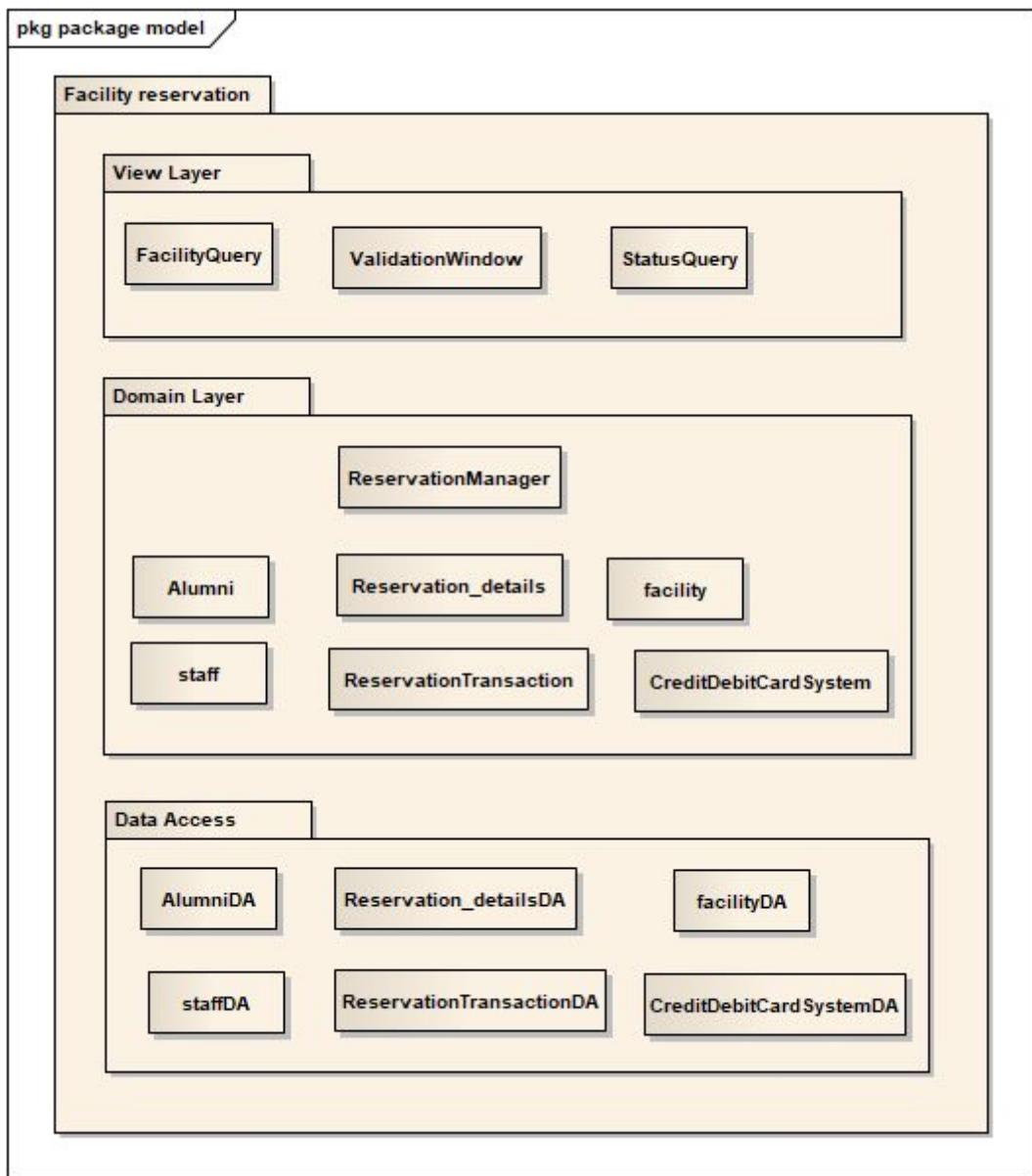


Figure 2.6: Package Diagram for Facility Reservation Subsystem

4.2.2.1 Class Diagram

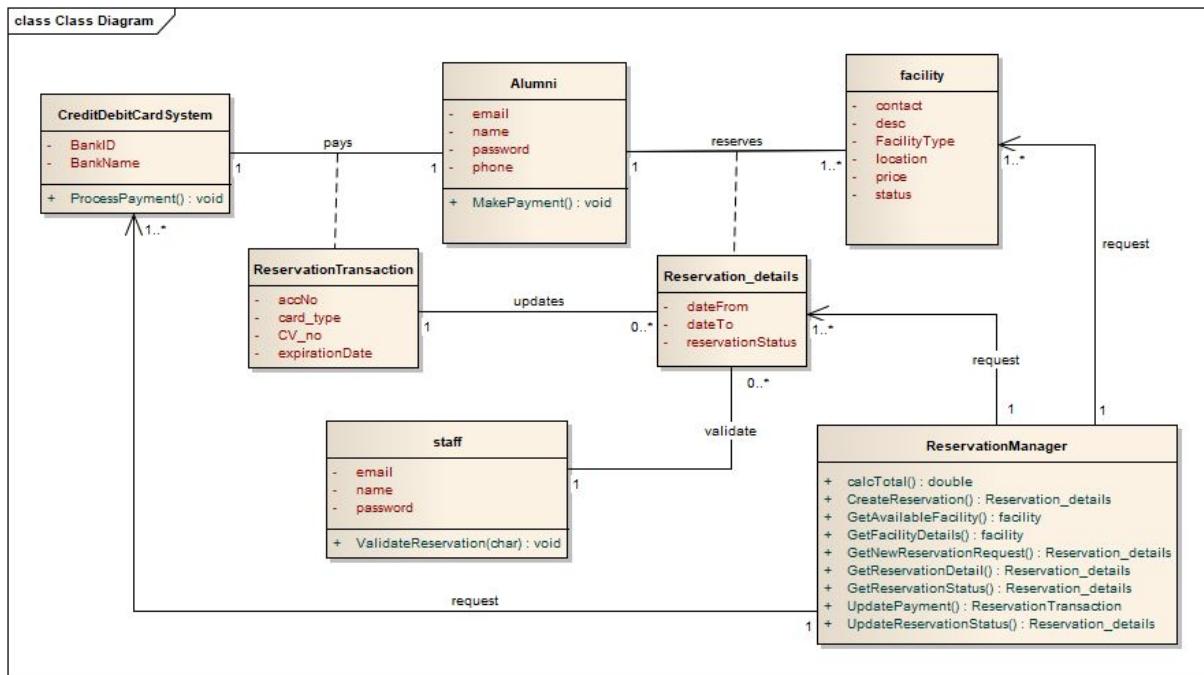


Figure 4.7: Class Diagram for Facility Reservation Subsystem

4.2.1.2 Sequence Diagram

a) SD001: Sequence diagram for Create a New Reservation

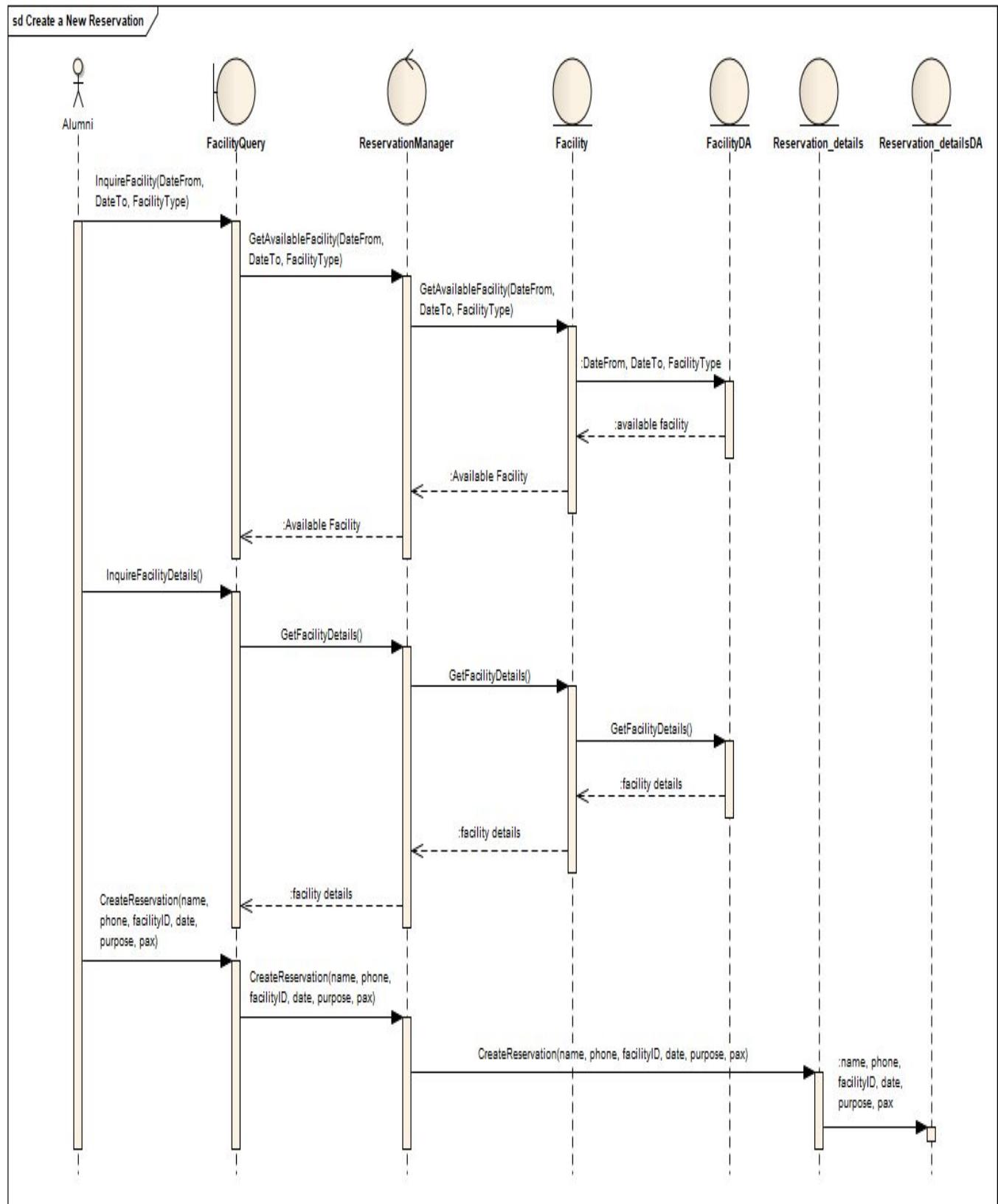


Figure 4.8: Sequence Diagram for Create a New Facility Reservation

b) SD002: Sequence diagram for validate reservation

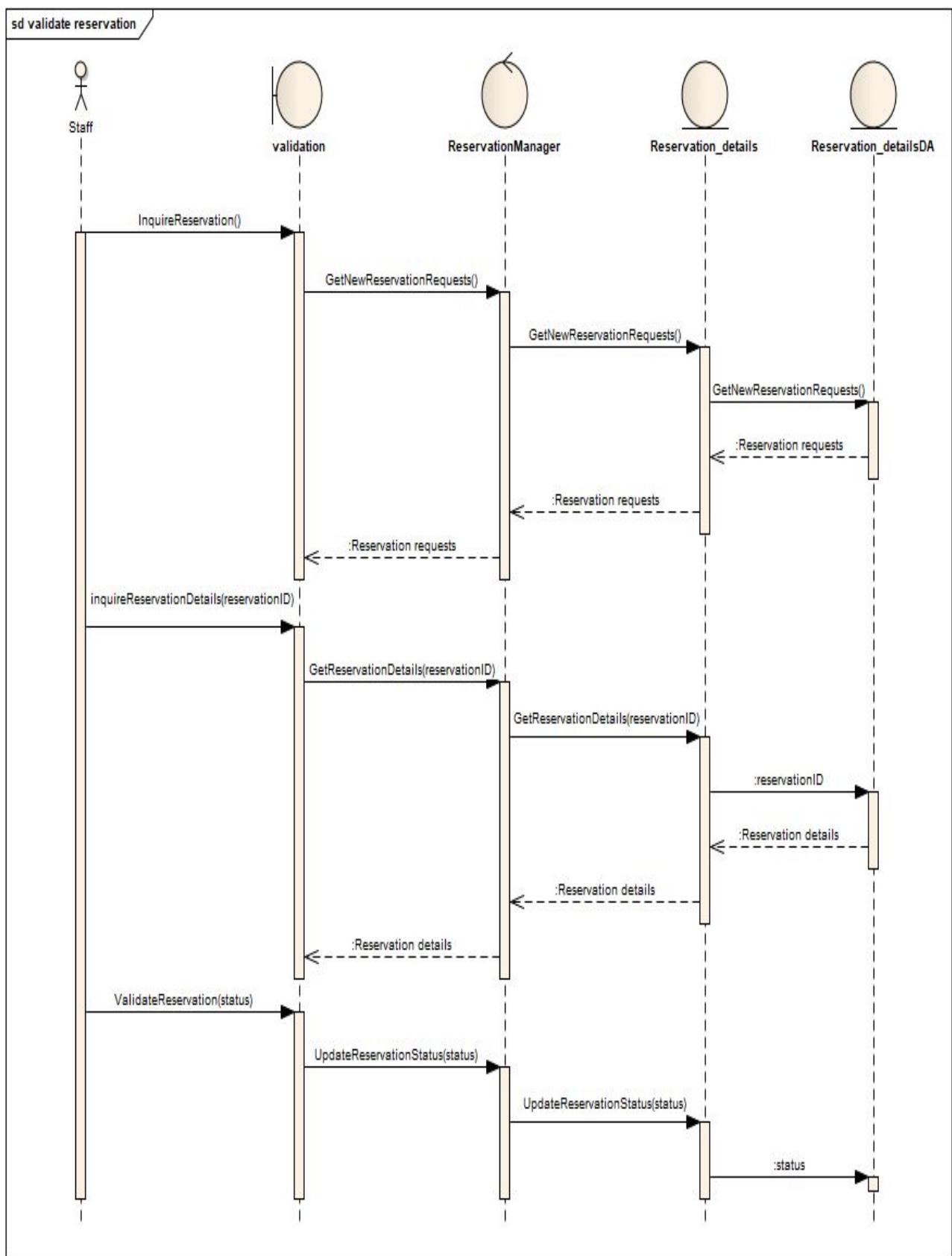


Figure 4.9: Sequence Diagram of Validate Reservation

c) SD003: Sequence diagram for Check Reservation Status

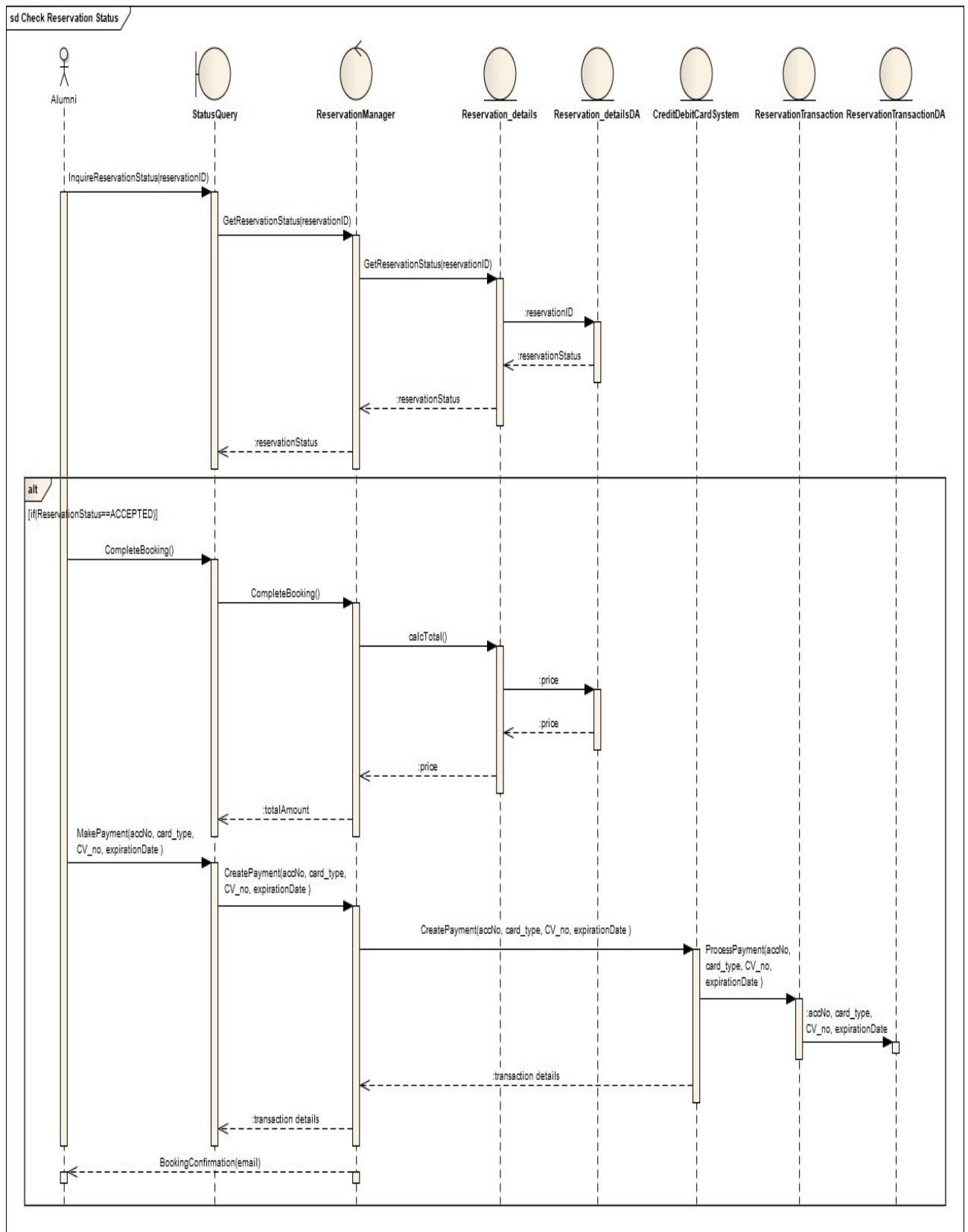


Figure 4.10: Sequence Diagram of Check Reservation Status

4.2.2 P003: Search for Job Subsystem

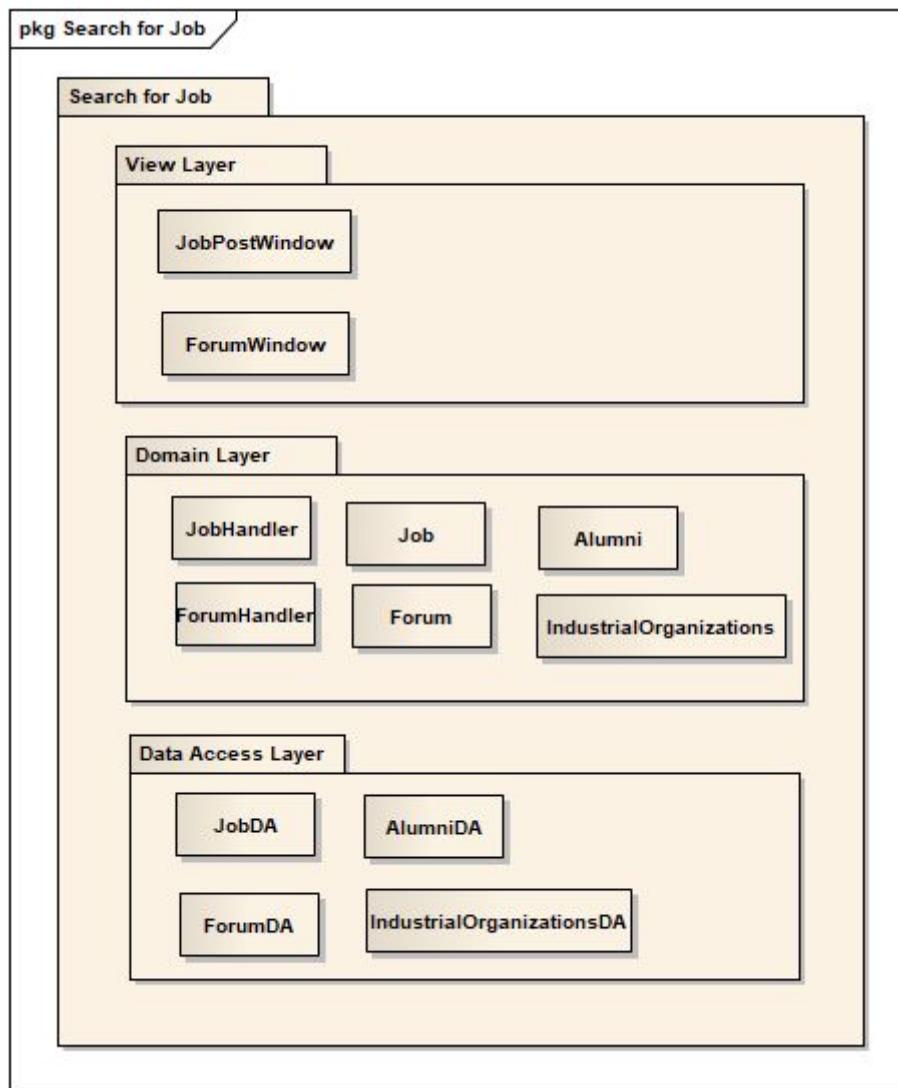


Figure 4.11: Package Diagram for Search for Job Subsystem

4.2.1.1 Class Diagram

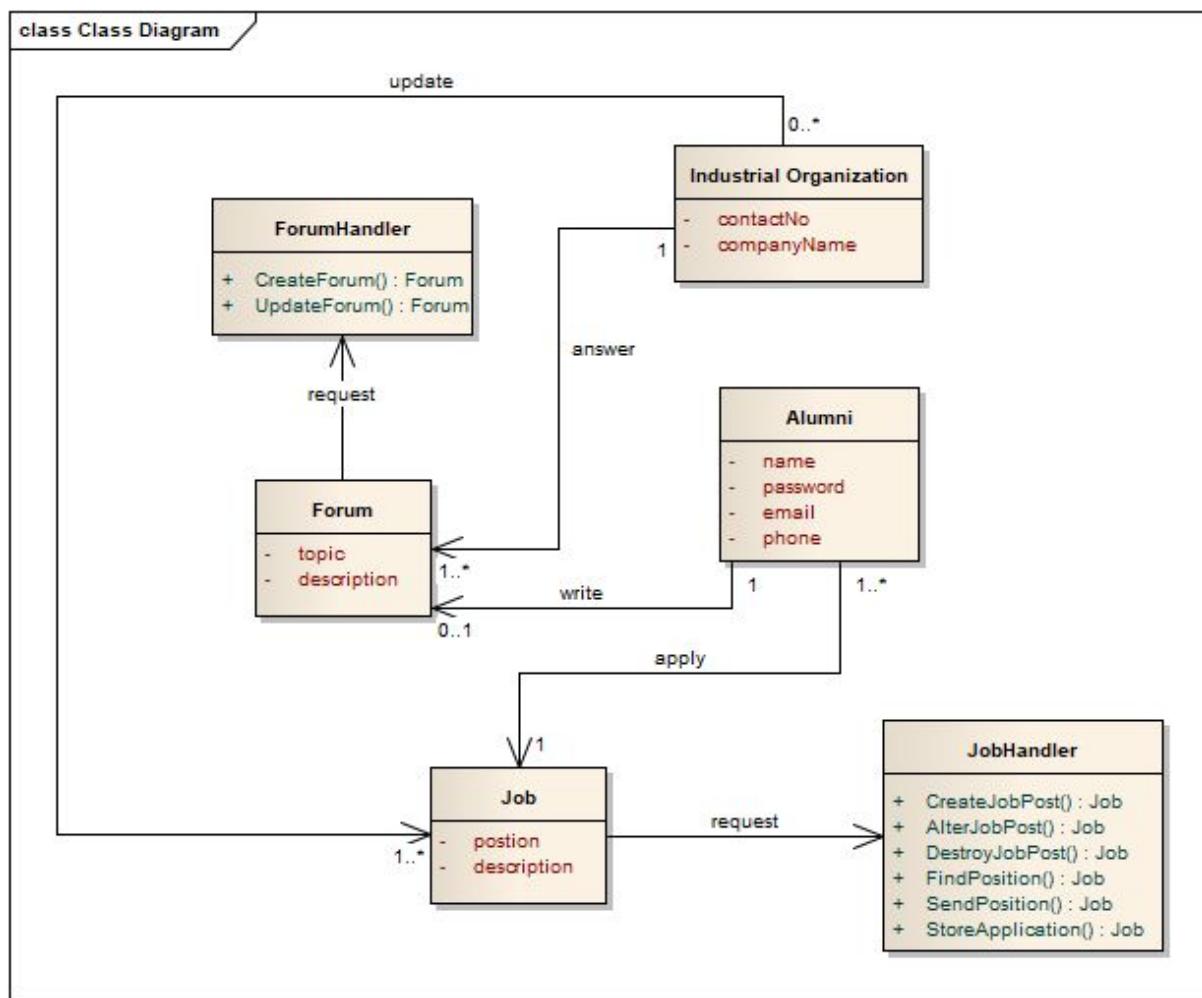


Figure 4.12: Class Diagram for Search for Job

4.2.1.2 Sequence Diagram

a) SD001: Sequence diagram for Update Job Post

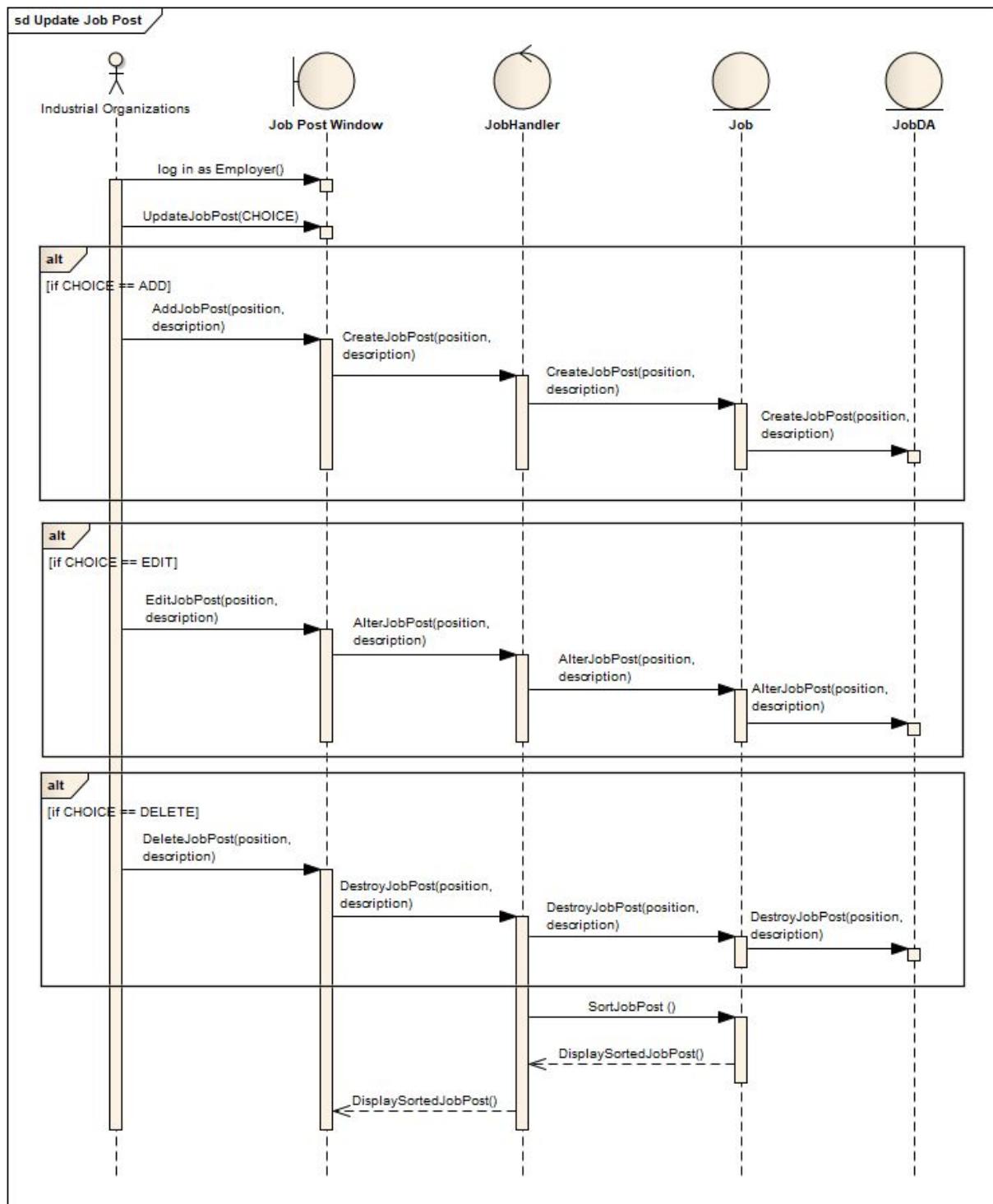


Figure 4.13: Sequence Diagram for Update Job Post

b) SD002: Sequence diagram for Write on Forum

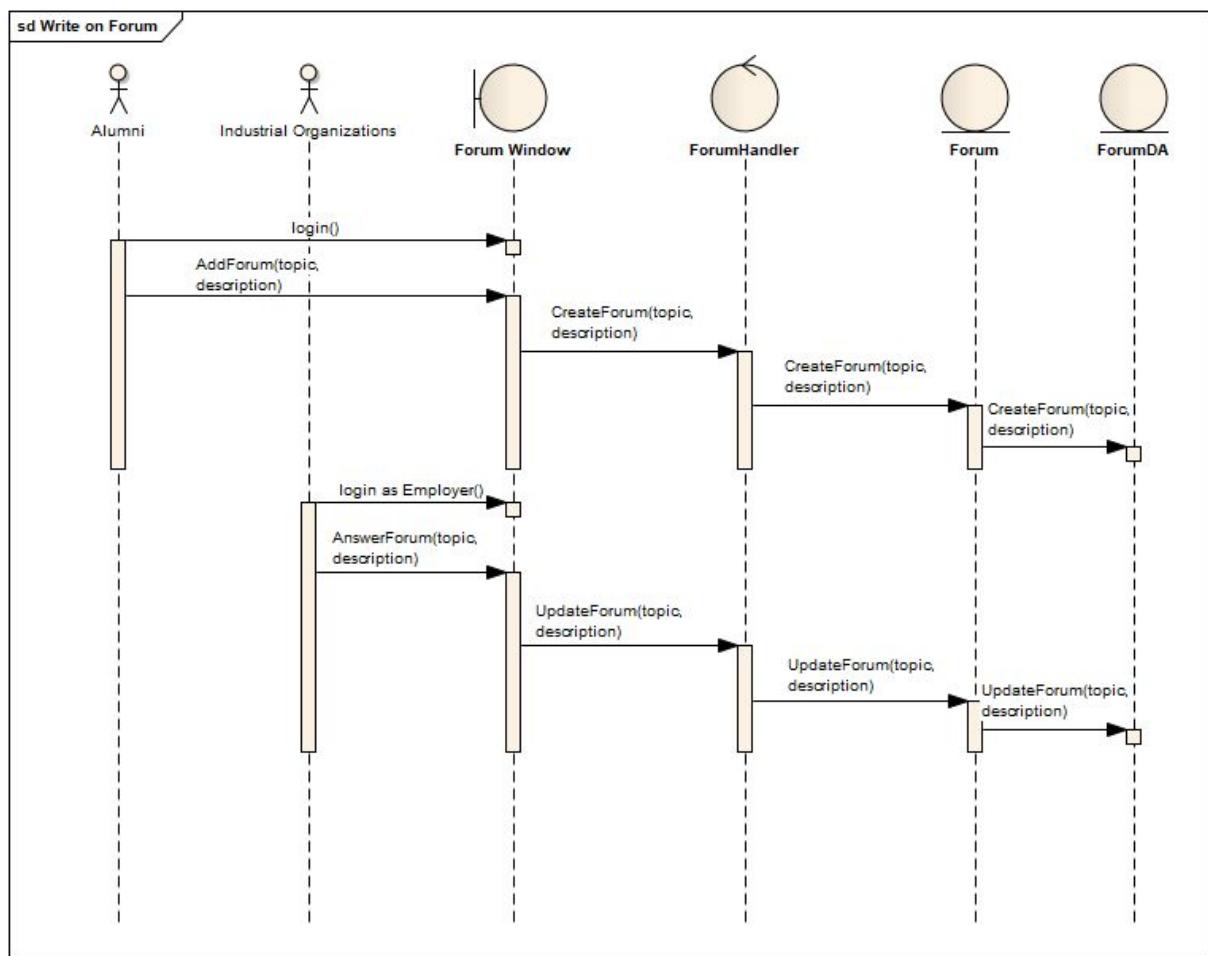


Figure 4.14: Sequence Diagram of Write on Forum

c) SD003: Sequence Diagram for Search for Job

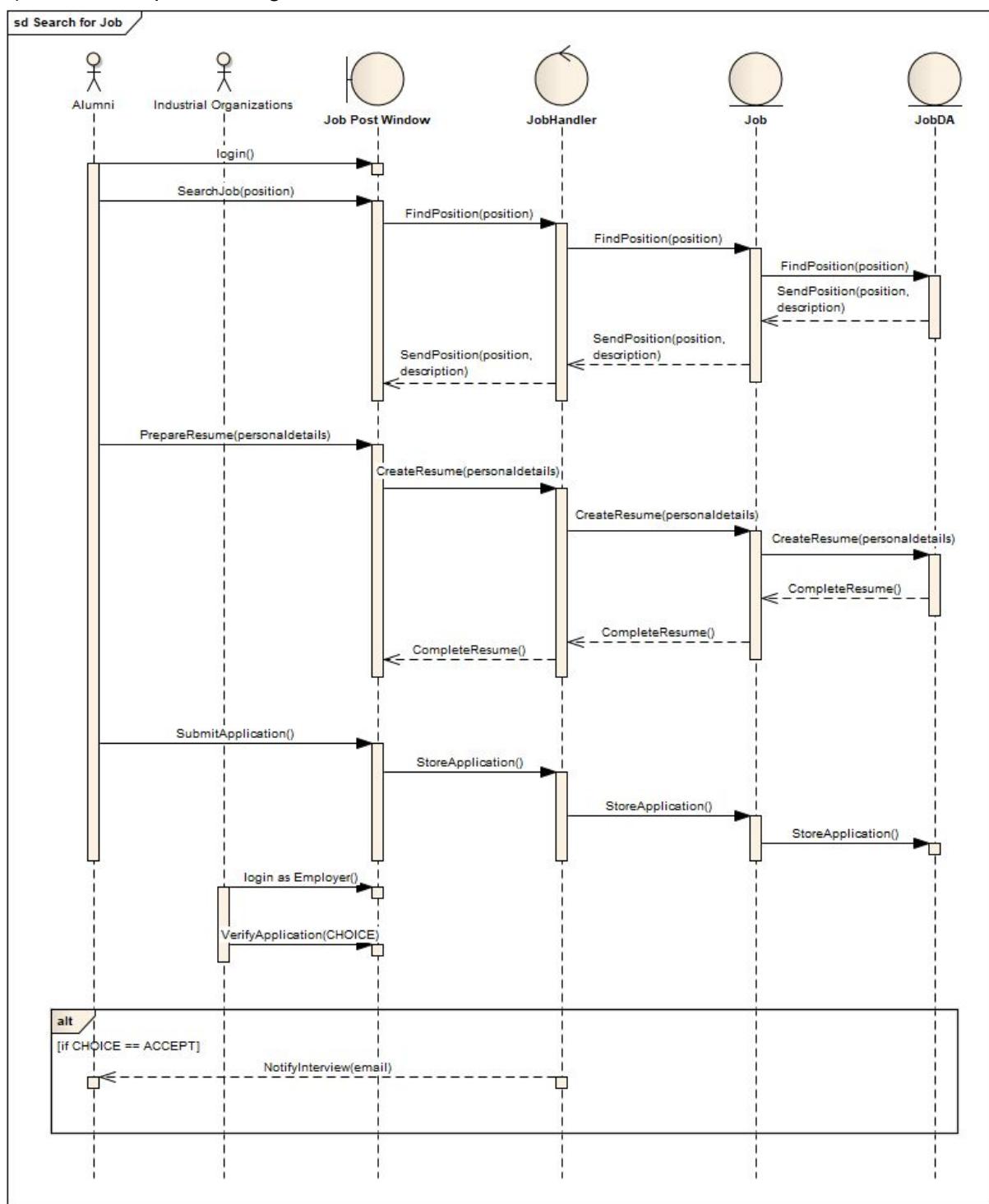


Figure 4.15: Sequence Diagram of Search for Job

4.2.2 P004: Case Report and Statistics Generator Subsystem

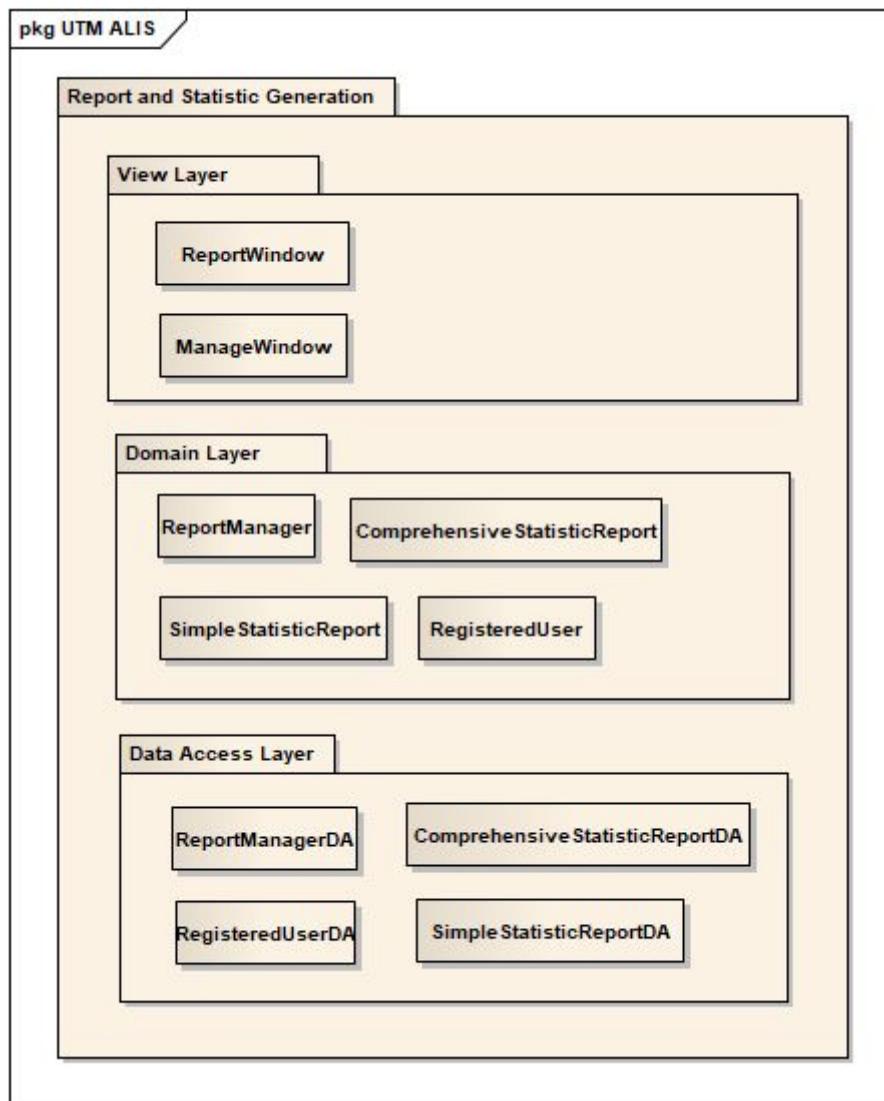


Figure 4.16: Package Diagram for Report and Statistics Generator Subsystem

2.2.1.1 Class Diagram

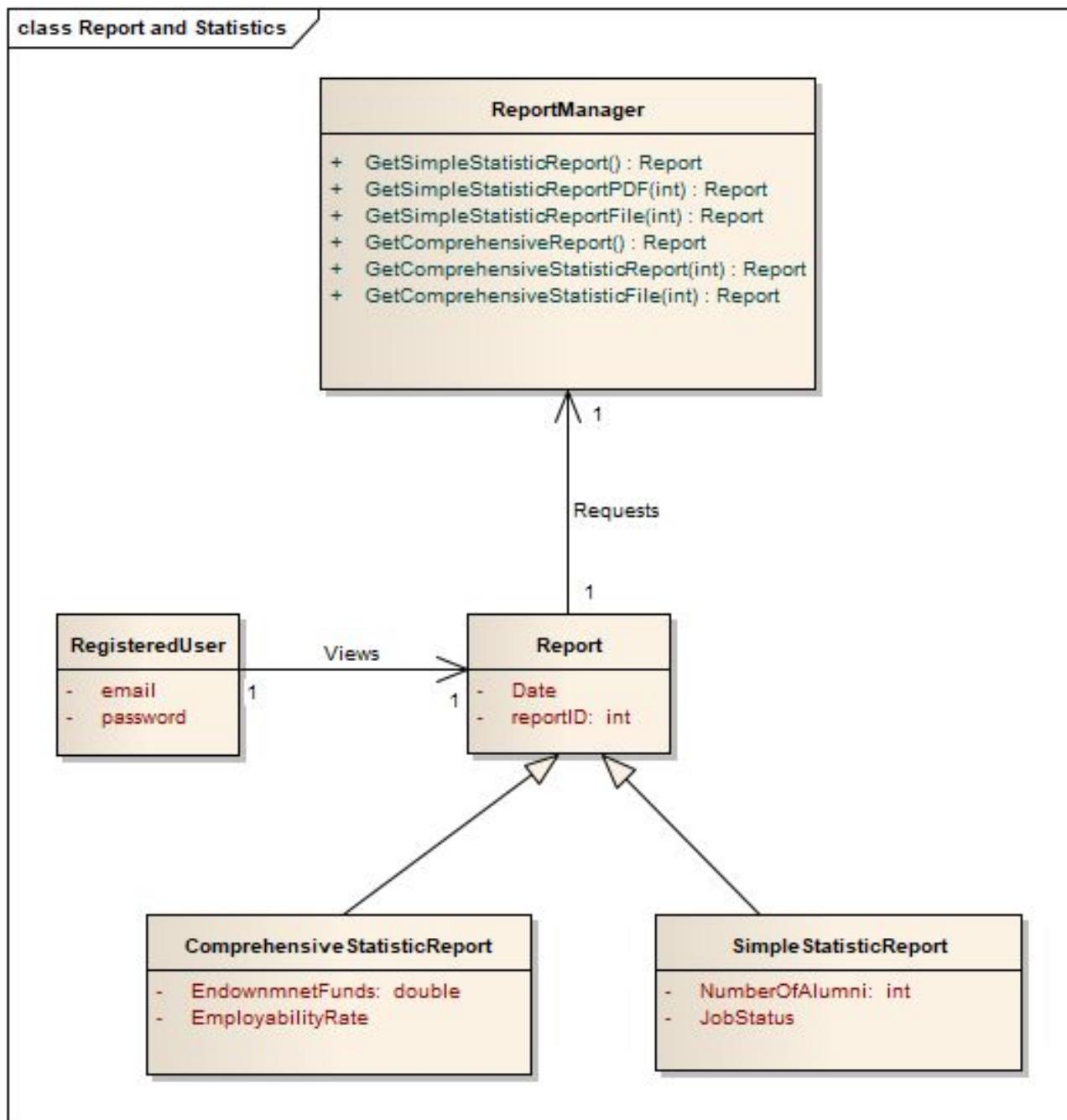


Figure 2.17: Class Diagram for Report and Statistics Generator Subsystem

4.2.1.2 Sequence Diagram

a) SD001: Sequence diagram for view simple statistics report

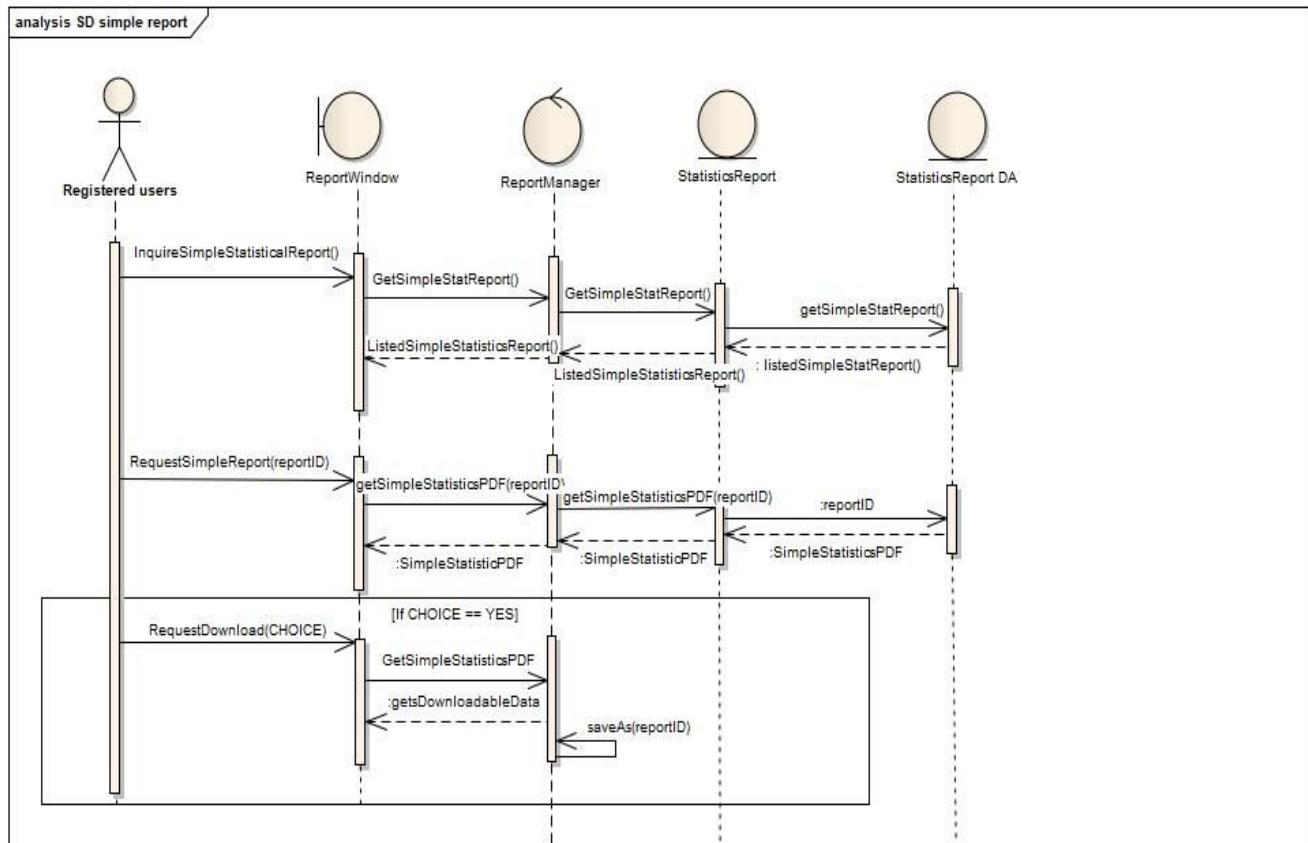


Figure 4.18: Sequence Diagram for view simple statistics report

b) SD002: Sequence diagram for view Comprehensive reports

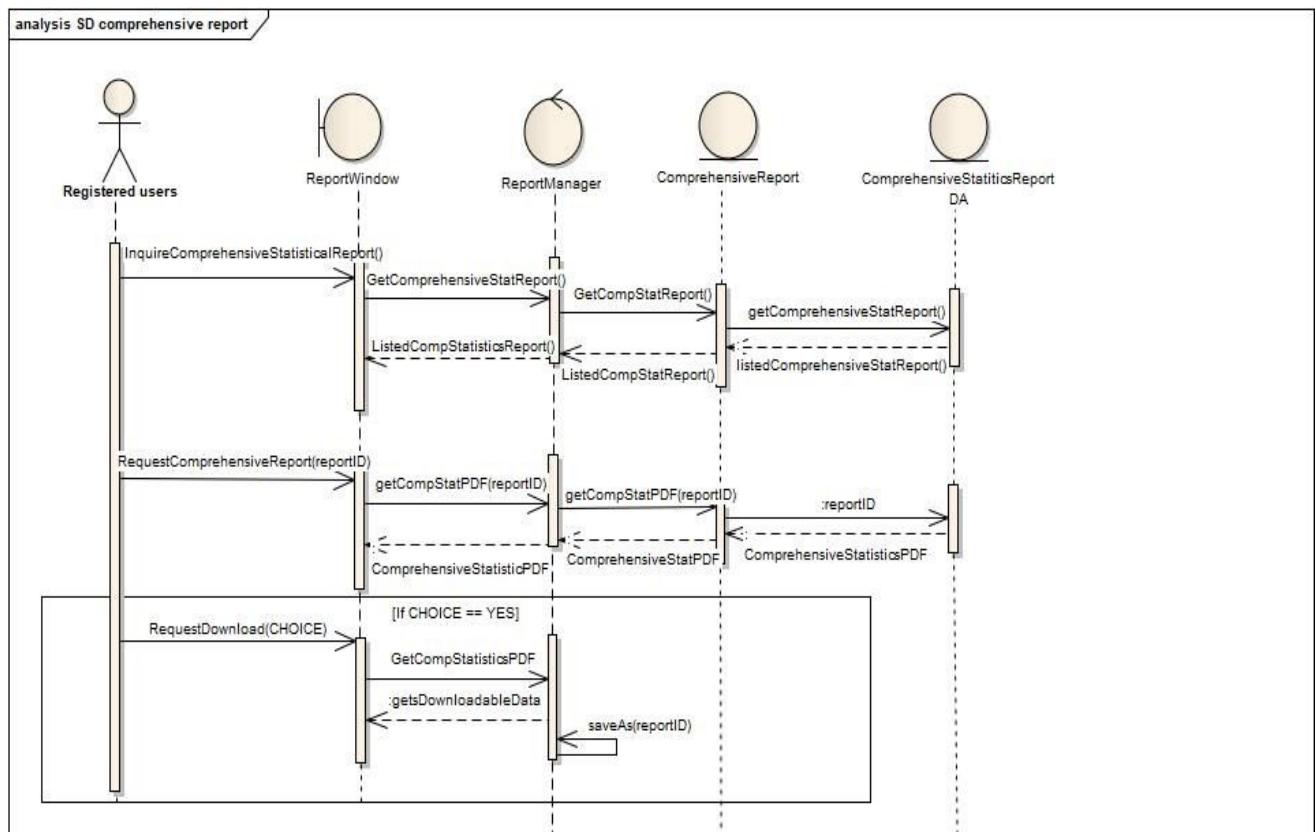


Figure 4.19: Sequence Diagram of View Comprehensive Reports

b) SD003: Sequence diagram for manage statistics report

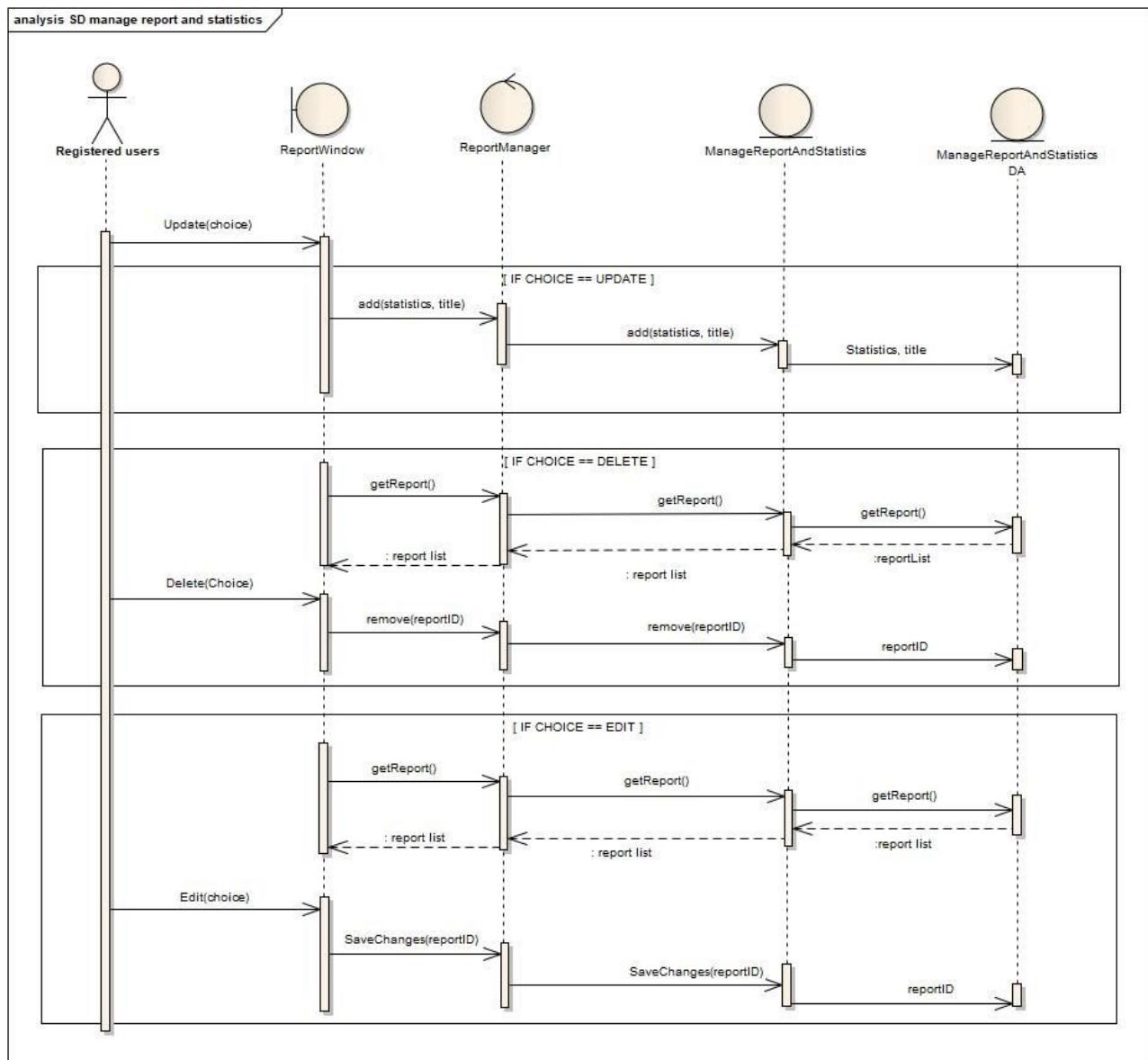


Figure 4.20: Sequence Diagram of Manage Statistics Report

5. User Interface Design

5.1 Overview of User Interface

There will be four features in this system which is Find a Friend, Reserve Facility, Search for Job and Statistical Report.

Find a Friend .

The view is for Public User and Registered User.

Reserve Facility

The view is reservation for Alumni.

Search for Job

There are two view for this feature which are Alumni and Industrial Organizations.

Statistical Report

There are two view for this module, one is user view another is admin view.

System admin has to login in order to manage statistical reports, and user or alumni can use the module without logging in.

5.2 Screen Images

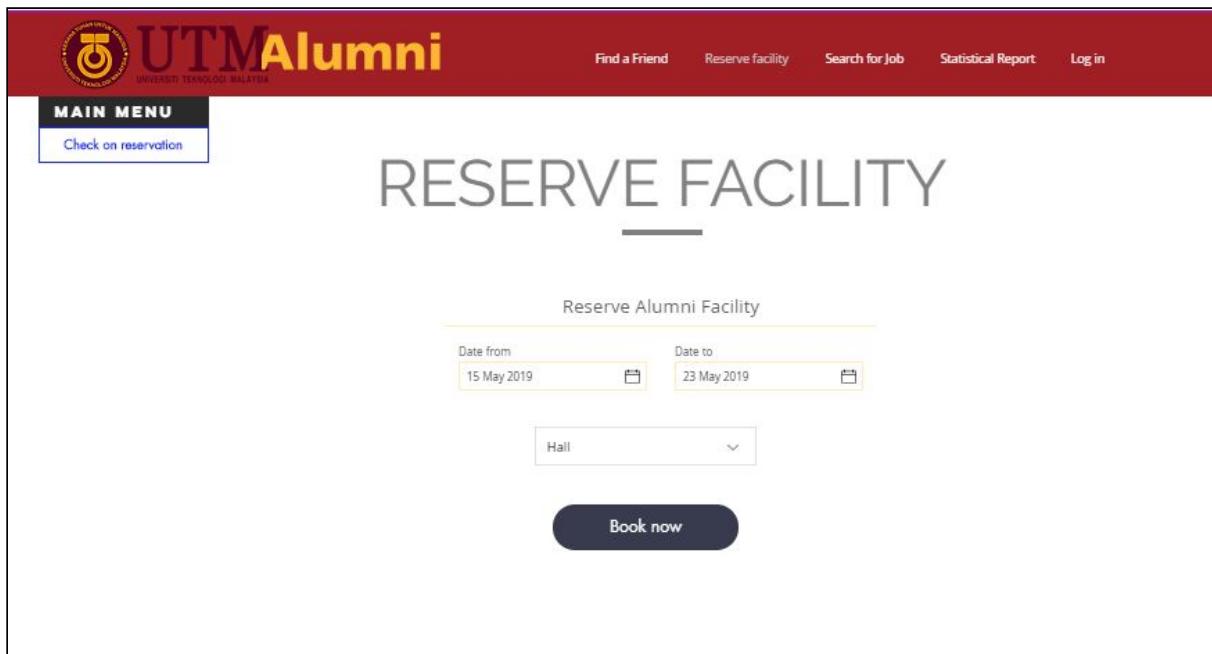
This section shows the expected output of the system



Find a Friend

The screenshot shows the UTM Alumni website's 'Find a Friend' section. At the top, there is a red header bar with the 'UTM Alumni' logo and navigation links for 'Find a Friend', 'Reserve Facility', and 'More'. Below the header, a large white banner features the text 'FIND A FRIEND' in bold capital letters. Underneath this, a red background area contains the text 'Want to find someone?' above 'FIND THEM HERE' and a 'Click Here' button. The main body of the page has a dark maroon background and features the text 'TYPE IN THEIR DETAILS' in bold capital letters. It includes input fields for 'Full Name', 'Course', 'Year Gradual' (with a dropdown arrow), 'Country' (with a dropdown arrow), and a 'Submit' button. At the bottom, a yellow banner features the text 'FIND NEARBY FRIENDS' in bold capital letters, followed by a search input field labeled 'Search Distance' and a 'Search' button.

Reserve Facility



The screenshot shows the UTM Alumni website's facility reservation interface. At the top, there's a red header bar with the UTM Alumni logo and navigation links: Find a Friend, Reserve facility, Search for Job, Statistical Report, and Log in. Below the header, a sidebar on the left has a 'MAIN MENU' section with 'Check on reservation'. The main content area features a large, bold 'RESERVE FACILITY' heading. Underneath it, a form titled 'Reserve Alumni Facility' includes fields for 'Date from' (15 May 2019) and 'Date to' (23 May 2019), both with calendar icons. A dropdown menu is set to 'Hall'. A prominent dark blue 'Book now' button is at the bottom of the form.



The screenshot shows a listing for the 'Rumah Alumni Hall' on the UTM Alumni website. The top navigation bar is identical to the previous page. The listing itself features a small thumbnail image of the hall, which appears to be a function room with round tables and chairs. To the right of the image, the text 'Rumah Alumni Hall' is displayed in bold, followed by the address 'Jalan Ladang, 81310 Johor Bahru, Johor'. A horizontal line separates this listing from the rest of the page.



Rumah Alumni Hall



Benefit

Your payment includes:
Free WiFi

Capacity

Can fit up to 200 people.

RM300

Your payment is nett
price. Your payment
includes SST.

Technology

This hall includes air
conditioner and
projector, microphone
and sound system

[Book now](#)



Let us know who you are

Full Name

Email

Phone

Country of Residence

10 JUL 2019 - 11 JUL 2019 2 days

Price (RM300 x 2 days) RM600.00

Booking fees **FREE**

PRICE RM 600.00

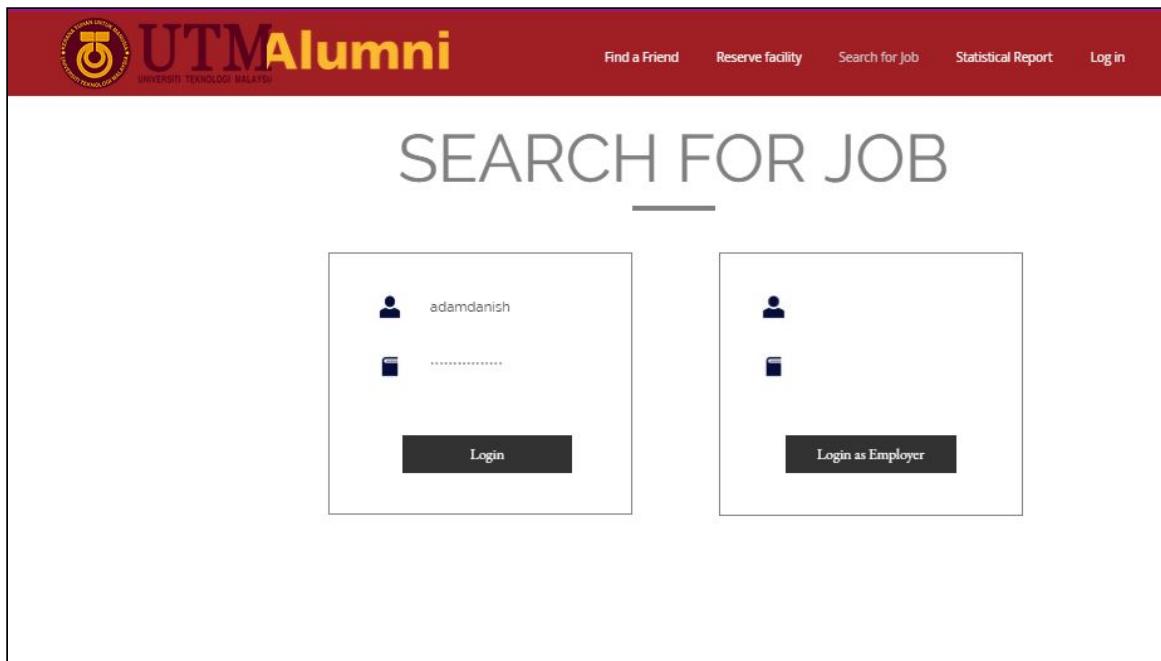
Included in price : Service charge 10%, Tax 7%

Any extra requirement?

Submit Reservation

After submitting, your reservation request will be validated by
the manager. This might take up to 3 working days.

Search for Job (Alumni view)



The screenshot shows the UTM Alumni website's search for job page. At the top, there is a red header bar with the UTM Alumni logo and navigation links: Find a Friend, Reserve facility, Search for Job, Statistical Report, and Log in. Below the header, the main title "SEARCH FOR JOB" is centered. There are two rectangular boxes side-by-side. The left box contains a user profile icon, the name "adamdanish", and a "Login" button. The right box contains a similar profile icon and a "Login as Employer" button.



This screenshot shows the same search for job page as above, but with two large, solid blue rectangular boxes instead of the original profile icons and buttons. The left blue box is labeled "Job Post" and the right blue box is labeled "Forum".

JOB POST

Software Engineer

Search Result : 3

Software Engineer, 4 years

MSP Hitect (M) Sdn. Bhd

 Putrajaya, Selangor Not Specified

Work closely with the project team in understanding/gathering requirements. • Think out of the box in designing and maintaining test suites/cases to ensure all the edge cases are covered.

Skills : Tester , Software Tester , Q.A,Testing, Software testing, Quality assurance**Software Engineer, 3 years**

Quess Corp Limited

 Selangor Not Specified

Test Execution, Test Management Reporting to Test Manager Skills & Attributes: Automation Testing Skills (Preferably Selenium/Cucumber/Ruby)

Skills : Automation Testing , Automation Test Engineer , Selenium Automation**Software Engineer, 5 years**

Cognizant Technology Solutions Asia Pacific Pte. Ltd

 Kuala Lumpur Not Specified

Understanding functional requirements, user stories, epics and developing unit test cases and test data



NIK ADAM DANISH

nik@gmail.com
01974639923

EDUCATION

UTM
Bachelor of Computer Science (Software Engineering)

2017-2021

EXPERIENCE

TOP DESIGN, INC. – Salt Lake City, UT
Contract Software Engineer

Dec 2011 – Jun 2013

Partnered with designers to implement custom web-based simulations for client review. Sliced designer compositions from PSD format and created interactive HTML5 web-simulations utilizing CSS3, Javascript, ReactJS, and plugins. Contributed as the sole programmer in a fast-paced team environment. Designed internal website for agents and management, saving an average \$8,000 in labor costs per week.

SKILLS

Databases

MySQL/MariaDB |
ElasticSearch

Programming

HTML5 | CSS3/SASS |
ReactJS/VueJS | Laravel
PHP | Python | Bash/Shell |
REST APIs

Operating Systems

Linux operating system
(Debian, Ubuntu,
CentOS/Rhel/Redhat) |
Microsoft Windows Server
| Microsoft

TECHNICAL

[View Website Tools](#)

[Submit Application](#)



Your application was submitted! Kindly wait for the application to be processed.



FORUM

Forum



Explore your forum below to see what you can do, or head to Settings to start managing your Categories.

Forum

Share your ideas or ask questions from organizations

0

Views

1

Posts

Following



Internet of Things

To be honest, 5G has been overhyped in recent years (not becaus...

0

Views

0

Posts

Follow



Search for Job (Industrial Organizations view)

The screenshot shows the UTM Alumni website's search for job section. At the top, there is a red header bar with the UTM Alumni logo and navigation links: Find a Friend, Reserve facility, Search for Job, Statistical Report, and Log in. Below the header, the main title "SEARCH FOR JOB" is centered. Two login boxes are displayed side-by-side. The left box is for individuals, showing a user icon and a "Login" button. The right box is for employers, showing a user icon, the identifier "emp001", a placeholder for a password field, and a "Login as Employer" button.

This screenshot shows a simplified version of the search for job section. The layout is identical to the one above, featuring the UTM Alumni logo and navigation links at the top. The main title "SEARCH FOR JOB" is centered. However, the two login boxes have been replaced by large blue rectangular buttons labeled "Job Post" and "Forum".

 **UTMAlumni**
UNIVERSITI TEKNOLOGI MALAYSIA

Find a Friend Reserve facility Search for Job Statistical Report Log in

JOB POST

Add Job Post Alter Job Post Delete Job Post Review Application

 **UTMAlumni**
UNIVERSITI TEKNOLOGI MALAYSIA

Find a Friend Reserve facility Search for Job Statistical Report Log in

ADD JOB POST

Fill in the details of the job accordingly.

Title : Software Engineer, 4 years
MSP Hitect (M) Sdn. Bhd

 Putrajaya, Selangor  Not Specified

Description : Work closely with the project team in understanding/gathering requirements. • Think out of the box in designing and maintaining test suites/cases to ensure all the edge cases are covered.

Skills : Tester , Software Tester , Q.A.,Testing, Software testing, Quality assurance

 **Add**

 **UTMAlumni**
UNIVERSITI TEKNOLOGI MALAYSIA

Find a Friend Reserve facility Search for Job Statistical Report Log in

ALTER JOB POST

Software Engineer, 4 years
MSP Hitect (M) Sdn. Bhd

 Putrajaya, Selangor  Not Specified

Work closely with the project team in understanding/gathering requirements. • Think out of the box in designing and maintaining test suites/cases to ensure all the edge cases are covered.

Skills : Tester , Software Tester , Q.A.,Testing, Software testing, Quality assurance

 **Edit**

System Analyst, 2 years
MSP Hitect (M) Sdn. Bhd

 Putrajaya, Selangor  Not Specified

Test Execution, Test Management Reporting to Test Manager Skills & Attributes: Automation Testing Skills (Preferably Selenium/Cucumber/Ruby)

Skills : Automation Testing , Automation Test Engineer , Selenium Automation

 **Edit**



DELETE JOB POST

Software Engineer, 4 years

MSP Hitect (M) Sdn. Bhd

Putrajaya, Selangor

Not Specified

Work closely with the project team in understanding/gathering requirements. • Think out of the box in designing and maintaining test suites/cases to ensure all the edge cases are covered.

Skills : Tester, Software Tester, Q.A., Testing, Software testing, Quality assurance



Delete

System Analyst, 2 years

MSP Hitect (M) Sdn. Bhd

Putrajaya, Selangor

Not Specified

Test Execution, Test Management, Reporting to Test Manager Skills & Attributes: Automation Testing Skills (Preferably Selenium/Cucumber/Ruby)

Skills : Automation Testing, Automation Test Engineer, Selenium Automation



Delete



REVIEW APPLICATION

New Application : 2

Accepted Application : 1

Rejected Application : 1

Position Applied : Software Engineer

Name : Nik Adam Danish

Email : nikadam@gmail.com

View Resume



Accept

Position Applied : System Analyst

Name : Bellarina Chew

Email : bellarina@gmail.com

View Resume



Accept

 **UTMAlumni**
UNIVERSITI TEKNOLOGI MALAYSIA

Find a Friend Reserve facility Search for job Statistical Report Log in

STATISTICAL REPORT

SIMPLE STATISTICS REPORT

- ▶ NUMBER OF ALUMNI
- ▶ JOB STATUS REPORT

COMPREHENSIVE STATISTICAL REPORT 

MANAGE STATISTICAL REPORT 

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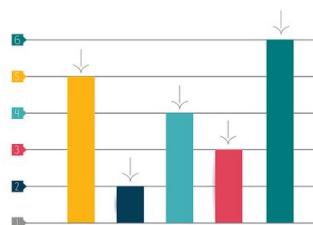
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 **UTMAlumni**
UNIVERSITI TEKNOLOGI MALAYSIA

Find a Friend Reserve facility Search for job Statistical Report Log in

Number Of Alumni Report



Download

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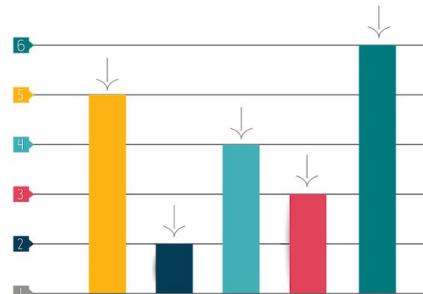
f t



 **UTMAlumni**
UNIVERSITI TEKNOLOGI MALAYSIA

Find a Friend Reserve facility Search for job Statistical Report Log in

JOB STATUS REPORT



Download

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 **UTMAlumni**
UNIVERSITI TEKNOLOGI MALAYSIA

Find a Friend Reserve facility Search for job Statistical Report Log In

STATISTICAL REPORT

COMPREHENSIVE STATISTICAL REPORT

-  ENDOWMENT FUNDS REPORT
-  EMPLOYABILITY RATE

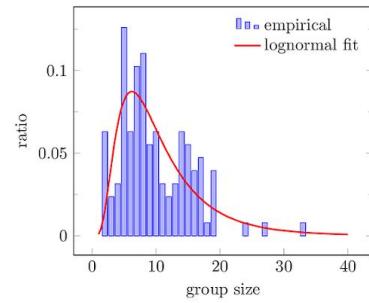
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 **UTMAlumni**

Find a Friend Reserve facility Search for job Statistical Report Log In

Endowment Fund Report



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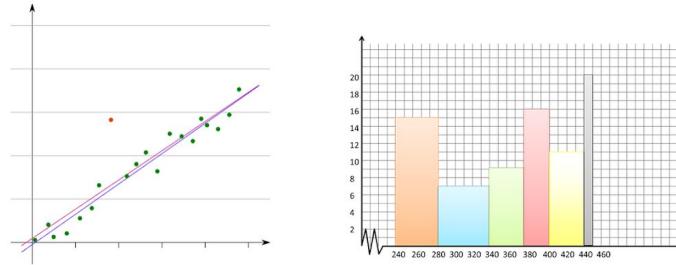
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 **UTMAlumni**

Find a Friend Reserve facility Search for job Statistical Report Log In

Employability Report



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UTMAlumni
UNIVERSITI TEKNOLOGI MALAYSIA

Find a Friend Reserve facility Search for Job Statistical Report Log in

MANAGE REPORT AND STATISTICS



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f t



UTMAlumni
UNIVERSITI TEKNOLOGI MALAYSIA

Find a Friend Reserve facility Search for Job Statistical Report Log in

You are logged in as a system admin

STATISTICAL REPORT

SIMPLE STATISTICS REPORT 

 NUMBER OF ALUMNI 

 JOB STATUS REPORT 

COMPREHENSIVE STATISTICAL REPORT  

MANAGE STATISTICAL REPORT 

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f t



6. Requirements Matrix

	Registered User	Student	Alumni	Public User	GPS System	Staff	Facility
P001, UC001, SD001			X	X			
P001, UC002, SD002	X	X	X		X		
P002, UC001, SD001			X				X
P002, UC002, SD002						X	
P002, UC003, SD003			X				
P003, UC001, SD001							
P003, UC002, SD002			X				
P003, UC003, SD003			X				
P004, UC001, SD001							
P004, UC002, SD002							
P004, UC003, SD003							

	CreditDebitCardSystem	Reservation Transaction	Reservation _details	Forum	Job
P001, UC001, SD001					
P001, UC002, SD002					
P002, UC001, SD001			X		
P002, UC002, SD002			X		
P002, UC003, SD003	X	X	X		
P003, UC001, SD001					X
P003, UC002, SD002				X	
P003, UC003, SD003					X
P004, UC001, SD001					
P004, UC002, SD002					
P004, UC003, SD003					

	Industrial Organisation	SimpleStatisticReport	ComprehensiveStatisticReport	Report
P001, UC001, SD001				
P001, UC002, SD002				
P002, UC001, SD001				
P002, UC002, SD002				
P002, UC003, SD003				
P003, UC001, SD001	X			
P003, UC002, SD002	X			
P003, UC003, SD003	X			
P004, UC001, SD001		X		X
P004, UC002, SD002			X	X
P004, UC003, SD003		X	X	X

7. Test Cases

7.1 TC001: Test for Find a Friend Subsystem: Find a Friend (UC001)

This test contains the following test cases:

- (a) TC001_01: Test for View Alumni Contact Details (SD001)
- (b) TC001_02: Test for Find Nearby Friends (SD002)

7.1.1 TC001_01: Test for View Alumni Contact Details (SD001)

This test contains the following alternate and exception scenarios:

- (a) TC001_01_01: Test for Alumni not found (SD001)

Test Case ID	TC001_01	Test Case Description	View alumni contact details		
Created By	Adam	Reviewed By	Sabrina	Version	1
QA Tester's Log					
Tester's Name		Date Tested		Test Case (Pass/Fail/Not)	
S # Prerequisites:			Test Data		
1			1		
2			2		
3			3		
4			4		
Test Scenario		User search for alumni "Nik Adam"			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	types alumni details and click search	display list of alumni profile			
2	click on desired alumni profile	display alumni contact details			

Diagram TC001_01: View alumni contact details

Test Case ID	TC001_01_01	Test Case Description	Alumni not found		
Created By	Adam	Reviewed By	Sabrina	Version	
QA Tester's Log					
Tester's Name		Date Tested		Test Case (Pass/Fail/Not)	
S # Prerequisites:			Test Data		
1			1		
2			2		
3			3		
4			4		
Test Scenario		"Nik Adam" not found			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	types in alumni details and clicks search	no alumni found			
2	clicks on search new alumni	display "Find a Friend" page			

Diagram TC001_01_01: Alumni not found

7.1.2 TC001_02: Test for Find nearby friends (SD002)

This test contains the following alternate and exception scenarios:

- (a) TC001_02_01: Test for No nearby freinds (SD002)

Test Case ID	TC001_02	Test Case Description	Find nearby friends		
Created By	Adam	Reviewed By	Bella	Version	1
QA Tester's Log					
Tester's Name		Date Tested	Test Case (Pass/Fail/Not)		
S # Prerequisites:					Test Data
1	registered user has to log in				
2					
3					
4					
Test Scenario		Search alumni within 10km radius			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	click on "Find Nearby Friends"	display location on map			
2	click on "Coordinates"	display coordinates			

Diagram TC001_02: Find nearby friends

Test Case ID	TC001_02_01	Test Case Description	No nearby friends		
Created By	Adam	Reviewed By	Bella	Version	1
QA Tester's Log					
Tester's Name		Date Tested	Test Case (Pass/Fail/Not)		
S # Prerequisites:					Test Data
1	registered user has to log in				
2					
3					
4					
Test Scenario		no nearby friends found			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	click on "Find Nearby Friends"	display "No neary friends found"			
2	click on "Exit"	display "Find a Friend" page			

Diagram TC001_02_01: No nearby friends

7.2 TC002: Test for Facility Reservation Subsystem: Reserve facility (UC002)

This test contains the following test cases:

- (a) TC002_01: Test for Create New Reservation (SD003)
- (b) TC002_02: Test for Validate Reservation (SD004)
- (c) TC002_03: Test for Check Reservation Status (SD005)

7.2.1 TC002_01: Test for Create New Reservation (SD003)

This test contains the following alternate and exception scenarios:

- (a) TC002_01_01: Test for No facility available on desired date (SD003)

Test Case ID	TC002_01	Test Case Description	Create New Reservation												
Created By	Bella	Reviewed By	Sabrina	Version	1										
QA Tester's Log															
Tester's Name		Date Tested	Test Case (Pass/Fail/No)												
<table border="1"> <thead> <tr> <th>S #</th> <th>Prerequisites:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Alumni needs to log in</td> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>3</td> <td></td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>					S #	Prerequisites:	1	Alumni needs to log in	2		3		4		
S #	Prerequisites:														
1	Alumni needs to log in														
2															
3															
4															
<table border="1"> <thead> <tr> <th>S #</th> <th>Test Data</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>email = hafizah@gmail.com</td> </tr> <tr> <td>2</td> <td>password = 45678</td> </tr> <tr> <td>3</td> <td>date = 20/07/2019 - 22/07/2019</td> </tr> <tr> <td>4</td> <td>type of facility = hall</td> </tr> </tbody> </table>					S #	Test Data	1	email = hafizah@gmail.com	2	password = 45678	3	date = 20/07/2019 - 22/07/2019	4	type of facility = hall	
S #	Test Data														
1	email = hafizah@gmail.com														
2	password = 45678														
3	date = 20/07/2019 - 22/07/2019														
4	type of facility = hall														
Test Scenario		Alumni creates a new reservation to reserve a facility													
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended											
1	select date and type of facility.	display available facility list.													
2	select facility	display facility information													
3	click "book now"	display total amount to pay and input fields													
4	enter personal information on required fields and click "submit"	display "reservation request successful"													

Diagram TC002_01: Create New Reservation

Test Case ID	TC002_01_01	Test Case Description	No facility available on desired date												
Created By	Bella	Reviewed By	Sabrina	Version	1										
QA Tester's Log															
Tester's Name		Date Tested	Test Case (Pass/Fail/No)												
<table border="1"> <thead> <tr> <th>S #</th> <th>Prerequisites:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Alumni needs to log in</td> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>3</td> <td></td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>					S #	Prerequisites:	1	Alumni needs to log in	2		3		4		
S #	Prerequisites:														
1	Alumni needs to log in														
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3															
4															
<table border="1"> <thead> <tr> <th>S #</th> <th>Test Data</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>email = hafizah@gmail.com</td> </tr> <tr> <td>2</td> <td>password = 45678</td> </tr> <tr> <td>3</td> <td>date = 20/07/2019 - 22/07/2019</td> </tr> <tr> <td>4</td> <td>type of facility = hall</td> </tr> </tbody> </table>					S #	Test Data	1	email = hafizah@gmail.com	2	password = 45678	3	date = 20/07/2019 - 22/07/2019	4	type of facility = hall	
S #	Test Data														
1	email = hafizah@gmail.com														
2	password = 45678														
3	date = 20/07/2019 - 22/07/2019														
4	type of facility = hall														
Test Scenario		Alumni creates a new reservation to reserve a facility													
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended											
1	select date and facility	display "Sorry, no available facility on selected date"													

Diagram TC002_01_01: No facility available on desired date

7.2.2 TC002_02: Test for Validate Reservation (SD004)

This test contains the following alternate and exception scenarios:

(a) TC002_02_01: Test for Reservation list is empty (SD004)

Test Case ID	TC002_02	Test Case Description	validate reservation request				
Created By	Bella	Reviewed By	Sabrina	Version	1		
QA Tester's Log							
Tester's Name			Date Tested	Test Case (Pass/Fail/No)			
S #	Prerequisites:						
1	staff needs to log in						
2							
3							
4							
S #	Test Data						
1	email = uwatz@utmalis.my						
2	password = 45678						
3	reservation request = hafizah-wedding event						
4	reservation status choice=ACCEPT						
Test Scenario	Staff log in to validate reservation requests						
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended			
1	click "Validate reservation"	display list of reservation request					
2	select reservation request from list.	display reservation request details					
3	click on reservation status choice	display reservation status					

Diagram TC002_02: Validate Reservation

Test Case ID	TC002_02_01	Test Case Description	Reservation list is empty				
Created By	Bella	Reviewed By	Sabrina	Version	1		
QA Tester's Log							
Tester's Name			Date Tested	Test Case (Pass/Fail/No)			
S #	Prerequisites:						
1	staff needs to log in						
2							
3							
4							
S #	Test Data						
1	email = uwatz@utmalis.my						
2	password = 45678						
3							
4							
Test Scenario	Staff log in to validate reservation requests						
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended			
1	click "Validate reservation"	display "reservation list is empty"					

Diagram TC002_02_01: Reservation list is empty

7.2.3 TC002_03: Test for Check Reservation Status (SD005)

This test contains the following alternate and exception scenarios:

- (a) TC002_03_01: Test for reservation is rejected or pending (SD005)
- (b) TC002_03_02: Test for payment is not made within 3 days (SD005)
- (c) TC002_03_03: Test for payment is rejected (SD005)

Test Case ID	TC002_03	Test Case Description	Check reservation status		
Created By	Bella	Reviewed By	Sabrina	Version	1
QA Tester's Log					
Tester's Name		Date Tested	Test Case (Pass/Fail/No)		
S # Prerequisites:		Test Data			
1	Alumni needs to log in	1	email = hafizah@google.com		
2	Reservation must exist for request	2	password = 45678		
3		3	reservation = Wedding event 20/07/2019-22/07/2019		
4		4			
Test Scenario		Alumni check on reservation status on bookings made			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	click "Check On reservation"	display list of reservation made			
2	select reservation from list.	display "ACCEPTED"			
3	click "Submit payment"	display total amount and input fields for card information			
4	enter card information and click "pay"	display "payment successful" and receive booking confirmation email			

Diagram TC002_03: Check Reservation Status

Test Case ID	TC002_03_01	Test Case Description	reservation is rejected		
Created By	Bella	Reviewed By	Sabrina	Version	1
QA Tester's Log					
Tester's Name		Date Tested	Test Case (Pass/Fail/No)		
S # Prerequisites:		Test Data			
1	Alumni needs to log in	1	email = hafizah@google.com		
2	Reservation must exist for request	2	password = 45678		
3		3	reservation = Talk 20/07/2019-22/07/2019		
4		4			
Test Scenario		Alumni wants to make payment for ACCEPTED reservation after 3 days			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	click "Check On reservation"	display list of reservation made			
2	select reservation from list	display "REJECTED"			

Diagram TC002_03_01: reservation is rejected

Test Case ID	TC002_03_02	Test Case Description	payment is not made within 3 days																				
Created By	Bella	Reviewed By	Sabrina																				
QA Tester's Log																							
Tester's Name		Date Tested	Test Case (Pass/Fail/No)																				
<table border="1"> <thead> <tr> <th>S #</th> <th>Prerequisites:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Alumni needs to log in</td> </tr> <tr> <td>2</td> <td>Reservation must exist for request</td> </tr> <tr> <td>3</td> <td></td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>			S #	Prerequisites:	1	Alumni needs to log in	2	Reservation must exist for request	3		4		<table border="1"> <thead> <tr> <th>S #</th> <th>Test Data</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>email = hafizah@google.com</td> </tr> <tr> <td>2</td> <td>password = 45678</td> </tr> <tr> <td>3</td> <td>reservation = Wedding event 20/07/2019-22/07/2019</td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>	S #	Test Data	1	email = hafizah@google.com	2	password = 45678	3	reservation = Wedding event 20/07/2019-22/07/2019	4	
S #	Prerequisites:																						
1	Alumni needs to log in																						
2	Reservation must exist for request																						
3																							
4																							
S #	Test Data																						
1	email = hafizah@google.com																						
2	password = 45678																						
3	reservation = Wedding event 20/07/2019-22/07/2019																						
4																							
Test Scenario		Alumni wants to make payment for ACCEPTED reservation after 3 days																					
Step #	Step Details	Expected Results	Actual Results																				
1	click "Check On reservation"	display list of reservation made																					
2	select reservation from list.	display "CANCELLED" and "payment is not made within 3 days"																					

Diagram TC002_03_02: payment is not made within 3 days

Test Case ID	TC002_03_03	Test Case Description	Rejected payment																				
Created By	Bella	Reviewed By	Sabrina																				
QA Tester's Log																							
Tester's Name		Date Tested	Test Case (Pass/Fail/No)																				
<table border="1"> <thead> <tr> <th>S #</th> <th>Prerequisites:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Alumni needs to log in</td> </tr> <tr> <td>2</td> <td>Reservation must exist for request</td> </tr> <tr> <td>3</td> <td></td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>			S #	Prerequisites:	1	Alumni needs to log in	2	Reservation must exist for request	3		4		<table border="1"> <thead> <tr> <th>S #</th> <th>Test Data</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>email = hafizah@google.com</td> </tr> <tr> <td>2</td> <td>password = 45678</td> </tr> <tr> <td>3</td> <td>reservation = Wedding event 20/07/2019-22/07/2019</td> </tr> <tr> <td>4</td> <td></td> </tr> </tbody> </table>	S #	Test Data	1	email = hafizah@google.com	2	password = 45678	3	reservation = Wedding event 20/07/2019-22/07/2019	4	
S #	Prerequisites:																						
1	Alumni needs to log in																						
2	Reservation must exist for request																						
3																							
4																							
S #	Test Data																						
1	email = hafizah@google.com																						
2	password = 45678																						
3	reservation = Wedding event 20/07/2019-22/07/2019																						
4																							
Test Scenario		Alumni make payment for ACCEPTED reservation																					
Step #	Step Details	Expected Results	Actual Results																				
1	click "Check On reservation"	display list of reservation made																					
2	select reservation from list.	display "ACCEPTED"																					
3	click "Submit payment"	display total amount and input fields for card information																					
4	enter card information and click "pay"	display "payment rejected" and "please try again later"																					

Diagram TC002_03_03: payment is rejected

7.3 TC003: Test for Job Searching Subsystem : Search for job (UC003)

This test contains the following test cases:

- (a) TC003_01: Test for Update Job Post (SD006)
- (b) TC003_02: Test for Write on Forum (SD007)
- (c) TC003_03: Test for Search for Job (SD008)

7.3.1 TC003_01: Test for Update Job Post (SD006)

This test contains the following alternate and exception scenarios :

- (a) TC003_01_01: Test for Add Job Post (SD006)
- (b) TC003_01_02: Test for Alter Job Post (SD006)
- (c) TC003_01_03: Test for Delete Job Post (SD006)

Test Case ID	TC003_01_01	Test Case Description	Test Add Job Post Successful	
Created By	Sabrina	Reviewed By	Bella	Version
QA Tester's Log	Initial test case creation			
Tester's Name	Adam	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)
S #	Prerequisites:			
1	Industrial Organization need to login as Employer			
2				
3				
4				
Test Scenario	Industrial organization add job post on UTM-ALIS.			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Select "Job Searching" on navigation bar	Job Post and Forum option appear		
2	Select "Job Post".	Job Post window appear		
3	Select "Add Job Post".	Job position and description can be added		

Diagram TC003_01_01: Add Job Post

Test Case ID	TC003_01_02	Test Case Description	Test Alter Job Post Successful	
Created By	Sabrina	Reviewed By	Bella	Version
QA Tester's Log	Initial test case creation			
Tester's Name	Adam	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)
S #	Prerequisites:			
1	Industrial Organization need to login as Employer			
2				
3				
4				
Test Scenario	Industrial organization alter job post on UTM-ALIS.			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Select "Job Searching" on navigation bar	Job Post and Forum option appear		
2	Select "Job Post".	Job Post window appear		
3	Select "Alter Job Post".	Job position and description can be edited		

Diagram TC003_01_02: Alter Job Post

Test Case ID	TC003_01_03	Test Case Description	Test Delete Job Post Successful	
Created By	Sabrina	Reviewed By	Bella	Version
QA Tester's Log	Initial test case creation			
Tester's Name	Adam	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)
S #	Prerequisites:			Test Data
1	Industrial Organization need to login as Employer			1 empID = emp03
2				2 Password = 8633
3				3
4				4
Test Scenario	Industrial organization delete job post on UTM-ALIS.			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Select "Job Searching" on navigation bar	Job Post and Forum option appear		
2	Select "Job Post".	Job Post window appear		
3	Select "Delete Job Post".	Job position and description can be deleted		

Diagram TC003_01_03: Delete Job Post

7.3.2 TC003_02: Test for Write on Forum (SD007)

Test Case ID	TC003_02	Test Case Description	Test Write on Forum Successful	
Created By	Sabrina	Reviewed By	Adam	Version
QA Tester's Log	Initial test case creation			
Tester's Name	Bella	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)
S #	Prerequisites:			Test Data
1	Alumni need to login			1 email = uwais@gmail.com
2	Industrial Organization need to login as Employer			2 Password = 45678
3				3 empID = emp022
4				4 Password = 5555
Test Scenario	Industrial organization delete job post on UTM-ALIS.			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Alumni select "Job Searching" on navigation bar	Job Post and Forum option appear		
2	Alumni select "Forum".	Forum window appear		
3	Alumni select "Add Topic".	Topic can be added		
4	Notify Industrial Organization to answer forum	Notification appear on Industrial Organization devices		
5	Industrial Organization add answer	Topic answered		

Diagram TC003_02: Write on Forum

7.3.3 TC003_03: Test for Search for job (SD008)

This test contains the following alternate and exception scenarios :

- (a) TC003_03_01: Test for Search for Job Successful (SD008)
- (b) TC003_03_02: Test for Search for Job Unsuccessful (SD008)
- (c) TC003_03_03: Test for Prepare Resume (SD008)
- (d) TC003_03_04: Test for Submit Application Successful (SD008)
- (e) TC003_03_05: Test for Submit Application Unsuccessful (SD008)

Test Case ID	TC003_03_01	Test Case Description	Test Search for Job Successful				
Created By	Sabrina	Reviewed By	Bella				
QA Tester's Log		Initial test case creation					
Tester's Name	Adam	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)			
Pass							
S #	Prerequisites:						
1	Alumni need to login						
2							
3							
4							
Test Scenario		Alumni searching for new job.					
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended			
1	Alumni select "Job Searching" on navigation bar	Job Post and Forum option appear					
2	Alumni select "Job Post".	Job Post window appear					
3	Alumni search "Software Engineer".	Software Engineer post found					

TC003_03_01 Search for Job Successful

Test Case ID	TC003_03_02	Test Case Description	Test Search for Job Unsuccessful				
Created By	Sabrina	Reviewed By	Bella				
QA Tester's Log		Initial test case creation					
Tester's Name	Adam	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)			
Fail							
S #	Prerequisites:						
1	Alumni need to login						
2							
3							
4							
Test Scenario		Alumni searching for new job.					
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended			
1	Alumni select "Job Searching" on navigation bar	Job Post and Forum option appear					
2	Alumni select "Job Post".	Job Post window appear					
3	Alumni search "Data Scientist".	Data Scientist post not found					

TC003_03_02 Search for Job Unsuccessful

Test Case ID	TC003_03_03	Test Case Description	Test Prepare Resume				
Created By	Sabrina	Reviewed By	Karimul	Version			
QA Tester's Log		Initial test case creation					
Tester's Name	Adam	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)			
Pass							
S #	Prerequisites:						
1	Alumni need to select desired job post						
2							
3							
4							
Test Scenario		Alumni are ready to apply for a job.					
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended			
1	Alumni need to click on "Prepare Resume".	Display resume template					
2	Alumni provide personal background detail.	Personal detail organized					
3	Alumni provide educational background detail.	Educational detail organized according to date					

TC003_03_03 Prepare Resume

Test Case ID	TC003_03_04	Test Case Description	Test Submit Application Successful		
Created By	Sabrina	Reviewed By	Adam	Version	1
QA Tester's Log		Initial test case creation			
Tester's Name	Bella	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)	Pass
S # Prerequisites:				S # Test Data	
1	Alumni need to prepare resume before submit job application.			1	emplID = emp022
2	Industrial Organization need to login as Employer			2	Password = 5555
3				3	
4				4	
Test Scenario		Alumni submitted a job application to Industrial Organizations.			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Alumni click "Submit Application"	Application stored by system			
2	Industrial Organizations review the applications.	Review application were highlighted			
3	Alumni notified through email.	Email received by Alumni			

TC003_03_04 Submit Application Successful

Test Case ID	TC003_03_05	Test Case Description	Test Submit Application Unsuccessful		
Created By	Sabrina	Reviewed By	Adam	Version	1
QA Tester's Log		Initial test case creation			
Tester's Name	Karimul	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)	Fail
S # Prerequisites:				S # Test Data	
1	Alumni need to prepare resume before submit job application.			1	emplID = emp022
2	Industrial Organization need to login as Employer			2	Password = 5555
3				3	
4				4	
Test Scenario		Alumni submitted a job application to Industrial Organizations.			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Alumni click "Submit Application"	Application stored by system			
2	Industrial Organizations review the applications.	Review application were highlighted			
3	Alumni notified through email.	Email did not received by Alumni			

TC003_03_05 Submit Application Unsuccessful

7.4 TC004: Test for Statistics and Report Generation : Generate Report (UC004)

This test contains the following test cases:

- (a) TC004_01: Test for Simple Statistics report (SD009)
- (b) TC004_02: Test for Comprehensive Statistics report (SD010)
- (c) TC004_03: Test for Manage Statistics (SD011)

7.4.1 TC004_01: Test for Simple Statistics report (SD009)

This test contains the following alternate and exception scenarios:

- (a) TC004_01_01: Test for View Simple Statistics Report (SD009)
- (b) TC004_01_02: Test for Download Simple Statistics Report Successful (SD009)
- (c) TC004_01_03: Test for Download Simple Statistics Report Unsuccessful (SD009)

Test Case ID	TC004_01_01	Test Case Description	Test Veiw Simple Statistics Report		
Created By	Sabrina	Reviewed By	Bellarina		
QA Tester's Log		Initial Test case creation			
Tester's Name	Karimul	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)	
S # Prerequisites:		S # Test Data			
1		1			
2		2			
3		3			
4		4			
Test Scenario		User views a simple statistics report.			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Select simple statistics	display all simple statistics list			
2	Select "Number of Alumni report"	display number of alumni report			
3					
4					

Diagram TC004_01_01: View Simple Statistics Report

Test Case ID	TC004_01_02	Test Case Description	Test Download Simple Statistics Report		
Created By	Sabrina	Reviewed By	Bellarina		
QA Tester's Log		Initial Test case creation			
Tester's Name	Karimul	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)	
S # Prerequisites:		S # Test Data			
1	Have to select a simple statistics	1			
2		2			
3		3			
4		4			
Test Scenario		User downloads a report			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Select simple statistics	display all simple statistics list			
2	Select "Number of Alumni report"	display number of alumni report			
3	click "Download"	downloads report			
4					

Diagram TC004_01_02: Download Simple Statistics Report Successful

Test Case ID	TC004_01_02	Test Case Description	Test Download Simple Statistics Report		
Created By	Sabrina	Reviewed By	Bellarina	Version	1
QA Tester's Log	Initial Test case creation				
Tester's Name	Karimul	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)	Fail
S #	Prerequisites:				
1	Have to select a simple statistics				
2					
3					
4					
Test Scenario	User downloads a report				
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Select simple statistics	display all simple statistics list			
2	Select "Number of Alumni report"	display number of alumni report			
3	click "Download"	does not download report			
4					

Diagram TC004_01_03: Download Simple Statistics Report Unsuccessful

7.4.2 TC004_02: Test for Comprehensive Statistics report (SD010)

This test contains the following alternate and exception scenarios:

- (a) TC004_02_01: Test for View Comprehensive Statistics Report (SD010)
- (b) TC004_02_02: Test for Download Comprehensive Statistics Report Successful (SD010)
- (c) TC004_02_03: Test for Download Comprehensive Statistics Report Unsuccessful (SD010)

Test Case ID	TC004_02_01	Test Case Description	Test View Comprehensive Statistics Report		
Created By	Sabrina	Reviewed By	Bellarina	Version	1
QA Tester's Log	Initial Test case creation				
Tester's Name	Karimul	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)	
S #	Prerequisites:				
1					
2					
3					
4					
Test Scenario	User views a comprehensive report				
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Select comprehensive statistics	display allComprehensive stat list			
2	Select "Employability Rate" report	display employability rate report			
3					
4					

Diagram TC004_02_01: View Comprehensive Statistics Report

Test Case ID	TC004_02_02	Test Case Description	Test Download Comprehensive Statistics Report		
Created By	Sabrina	Reviewed By	Bellarina	Version	1
QA Tester's Log	Initial Test case creation				
Tester's Name	Karimul	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)	Pass
S #	Prerequisites:		S #	Test Data	
1	Have to select a Comprehensive statistics		1		
2			2		
3			3		
4			4		
Test Scenario	User downloads a comprehensive report				
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Select comprehensive statistics	display allComprehensive stat list			
2	Select "Employability rate" report	display "Employability rate" report			
3	click "Download"	downloads report			
4					

Diagram TC004_02_02: Download Comprehensive Statistics Report Successful

Test Case ID	TC004_02_03	Test Case Description	Test Download Comprehensive Statistics Report		
Created By	Sabrina	Reviewed By	Bellarina	Version	1
QA Tester's Log	Initial Test case creation				
Tester's Name	Karimul	Date Tested	30/4/2019	Test Case (Pass/Fail/Not)	Fail
S #	Prerequisites:		S #	Test Data	
1	Have to select a Comprehensive statistics		1		
2			2		
3			3		
4			4		
Test Scenario	User downloads a comprehensive report				
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Select comprehensive statistics	display allComprehensive stat list			
2	Select "Employability rate" report	display "Employability rate" report			
3	click "Download"	does not download report			
4					

Diagram TC004_02_03: Download Comprehensive Statistics Report Unsuccessful

7.4.3 TC004_03: Test for Manage Statistics report (SD011)

Test Case ID	TC004_03_01	Test Case Description	Test View Manage Statistic Report				
Created By	Sabrina	Reviewed By	Bellarina	Version	1		
QA Tester's Log	Initial Test case creation						
Tester's Name	Karimul	Date Tested	1/5/2019	Test Case (Pass/Fail/Not)			
S #	Prerequisites:						
1	System Admin needs to login as staff						
2							
3							
4							
Test Scenario	System admin manages reports						
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended			
1	Select comprehensive statistics	display allComprehensive stat list					
2	Select "Employability Rate" report	display employability rate report					
3	click "menu"	display "update","delete","edit" opt					
4	Select Update report	display update report options					
5	Update "Employability rate" report	updates selected report					

Diagram TC004_03: Manage Statistics report (SD011)

8. Test Approach Analysis

The test approach includes the use of Boundary Value Analysis (BPA) in order to determine whether or not the program does what it is supposed to do based on its functional requirements as well as to focus on testing that ignores the internal mechanism of a system or component and focuses solely on the outputs generated in response to selected inputs and execution conditions.

Test Case ID	Step#	Input data	Valid	Invalid
TC001_01	1	Adam	Not null	Null
TC001_01	1	2018	Not null	Null
TC002_01	4	Hafizah	Not Null	Null
TC002_01	4	981118-05-1234	Not Null or With “-”	Null or Without “-”
TC002_01	4	hafizah@gmail.com	Not Null or Existing email	Null or Non existing email
TC002_01	4	0161234567	Not Null or Without “-”	Null or With “-”
TC002_03	4	Hafizah Ramli	Not Null	Null
TC002_03	4	1600-5678-1234-5678	Not Null	Null
TC002_03	4	01/22	Not Null	Null
TC002_03	4	123	Not Null	Null
TC003_01_01	3	Web Developer, Descriptions	Not Null	Null
TC003_02	3	Internet of Things (IoT)	Not Null	Null

TC003_03_01	3	Software Engineer	Not Null	Null
TC003_03_03	2	Details	Not Null	Null
TC004_03	2	staff0034	Existing Id	Non Existing id
TC004_03	2	3333	Existing Password	Non Existing Password

Appendix A: Traceability Matrix

Test Case ID	Use Case ID/ Sequence Diagram ID	Package ID
TC001 for Find a Friend Subsystem · TC001_01 · TC001_02	UC001 · SD001 · SD002	P001
TC002 for Facility Reservation Subsystem · TC002_01 · TC002_02 · TC002_03	UC002 · SD003 · SD004 · SD005	P002
TC003 for Job Searching Subsystem · TC003_01 · TC003_02 · TC003_03	UC003 · SD006 · SD007 · SD008	P003
TC004 for Report Generation Subsystem · TC004_01 · TC004_02 · TC004_03	UC004 · SD009 · SD010 · SD011	P004