Student Affairs

SRS

Introduced By G22

Version	Written By	Reviewed By	Approved By	Date
0.X	G22	G22	G22	2/12/2018
1.X	G22	G22	G22	9/12/2018
3.X	G22	G22	G22	16/12/2018

Introduction

Executive Summary

Students Affairs Website is a tool that will accelerate the workflow of SA department and offer great deal of comfort for both applicants and employees. SA website is an online platform where students can apply for any type of official document, and employees can manage and oversee any type of requests. Online student affairs offer answers for all student's enquiries and FAQs, easy & quick access to any document procedures, student can manage all his\her requests supported with online payment as well as mail notifications.

Document Overview

This document introduces Students Affairs product. It introduces system description, system users, system modules, system functions, system models, non-functional requirements, domain requirements and system interfaces.

Abbreviations and Definition

Term	Definition
User/Student	Someone who interacts with the mobile phone application
Admin/Employee	System administrator who is given specific permission for managing and controlling the system

System Description

Overall Description

This section contains the implementation of the system. It includes an overall system description, the functions the system will serve, the constraints of the system, the requirements of the system, and what is assumed and expected from the user. Although we will not describe every requirement in detail, this section will describe the factors that affect the final product.

1-Product perspective

- Saving time.
- Working in a comfortable environment anywhere you want.
- Accelerate doing the job.

2-Product functions

- Receive a list of required files for his specific request.
- Pay online for the request if needed.
- Know when his document will be ready through a mail notification.
- Know information he needs through FAQs.

3-User classes and characteristics

- Employee: They are the people who working in the college.
- Students: They are the people who studying in the college.
- Administrator: They are the people who are responsible for the developing and editing.
- Supervisors: They are the high broad of the college.

4-Operating Environment

- **Software:** HTML, CSS, JavaScript, query, Bootstrap, PHP, MySQL.

5-Design and implementation constraints:

❖ **General constraints:**
  ✓ Technology Constraints:
    Proposed web application can be implemented with PHP/JAVA for front end design purpose & for the database purpose, we can opt for Mysql/Oracle.
  ✓ Interface Constraints:
    Since, this is a Web based application so it should work on major browsers like Internet explorer, Mozilla Firefox, Google Chrome, Opera etc.
  ✓ Safety and Security Constraints:
    Since, application is intended for the authenticated users only, so anonymous person should not be able to access and operate over the user data.

❖ **Implementation:**
  - Every student has his ID.
  - Establishing maintenance team for expecting technical problems.
  - Specify documents to be done by the students and others to be done by admins.
  - Organizing the maximum number (15000) of students using the system co-incidentally.

6-User documentation

- User manuals.
- Online help.

7-Assumptions and dependencies

- The user must be a student.
- The student shouldn't have more than one account.
- Annual update for student data.
- Student tuition must be paid first to use the system.

System Users

Student

Through this website student can apply for his needs in a very comfortable environment, with one click the student will be able to:

- Make most of his requests easily.
- Receive a list of required files for his specific request.
- Pay online for the request if needed.
- Know when his document will be ready through a mail notification.
- Know information he needs through FAQs.

The website will also make it easier for making inquiries and receiving specific answers from employees, saving time and avoiding any problems.

Employee

On The other side for the employee it enables them reaching the information they need as admins just by hitting a button, instead of going through many boxes and pages. Thus this will save time, efforts, avoiding any kind of missing data, and make all their jobs done easily. The employees will receive the student request with student information so they can prepare the required document and send the student a notification when his paper is finished.
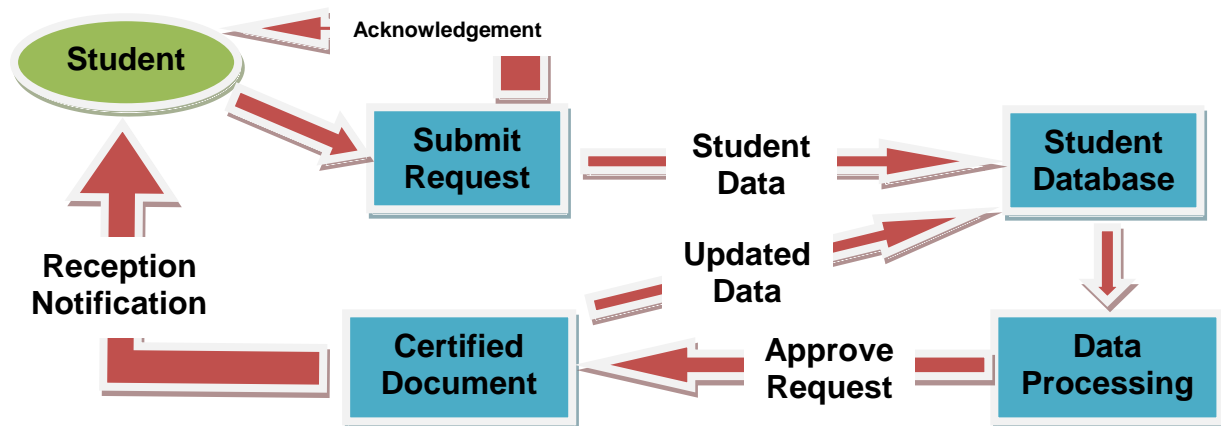
System Modules

Student affairs system introduces huge amount of student information and many student service. The system offers the contents and service to both mobile and desktop users via web-based.

The system consists of following **modules: (1)** Storage, **(2)** Data Processing, **(3)** Student Area, **(4)** Employee Area, **(5)** System Administration Area, **(6)** Supervisors Area, **(7)** Security.
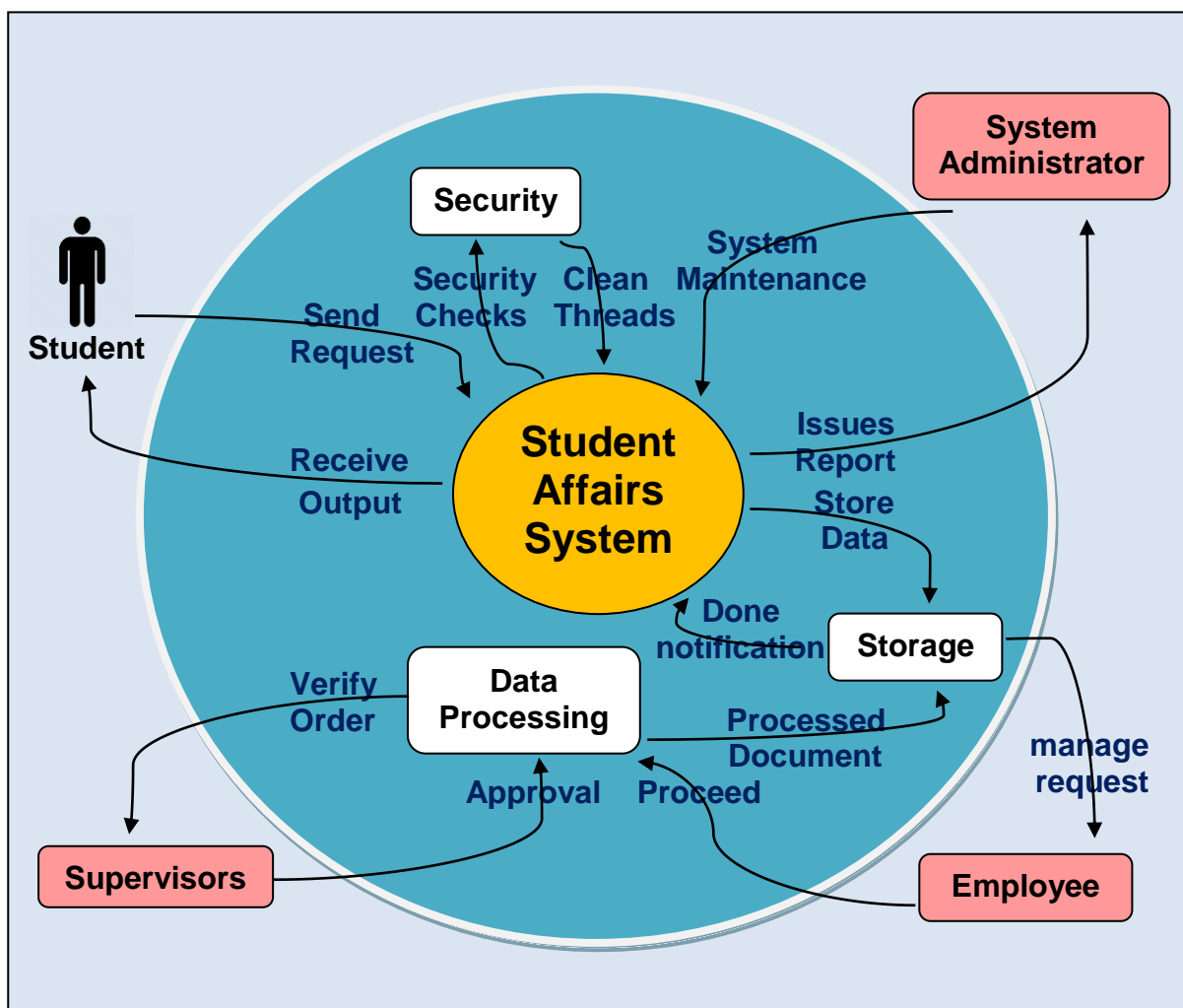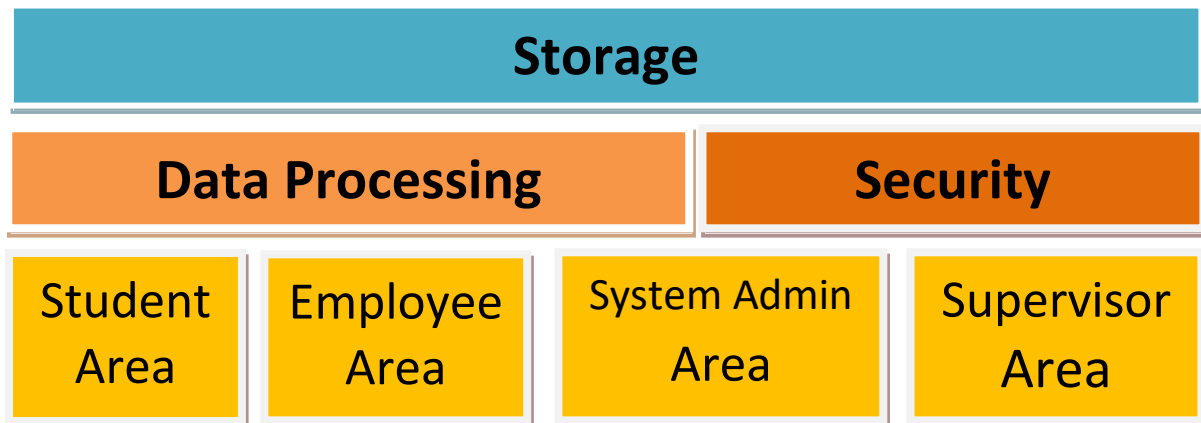
Storage

Data Processing	Security

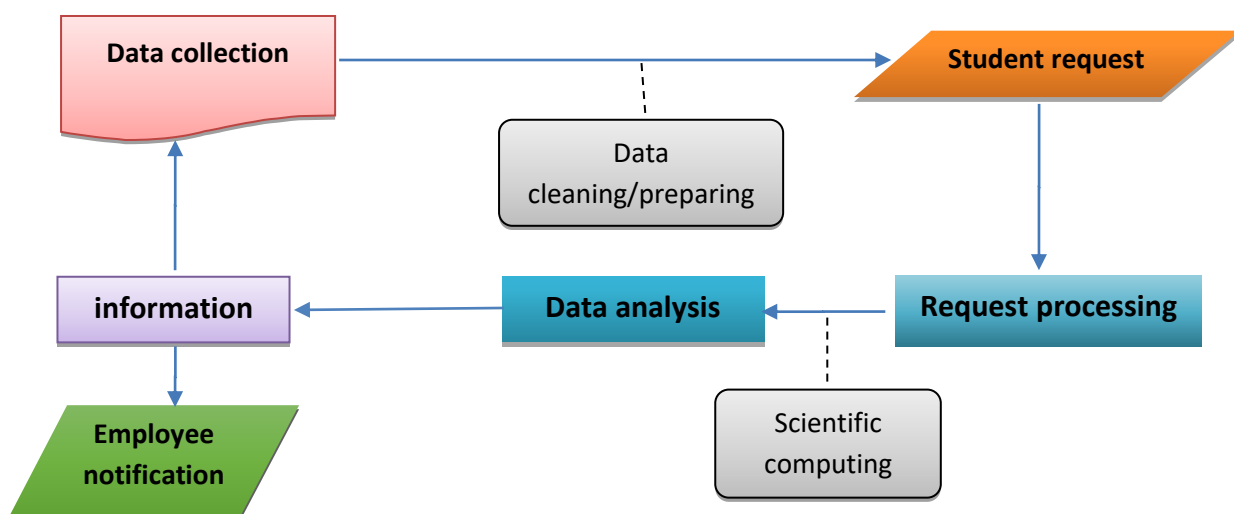| Student Area	Employee Area	System Admin Area	Supervisor Area

Storage

Student affairs uses traditional structured database which provide better queries and data processing over structured contents. **MySQL** is the world's most popular open source database. With its proven performance, reliability, and ease-of-use, MySQL [1] has become the leading database choice for web-based applications, used by high profile web properties including Facebook, Twitter, YouTube, and all five of the top five websites. Additionally, it is an extremely popular choice as embedded database, distributed by thousands of ISVs and OEMs.
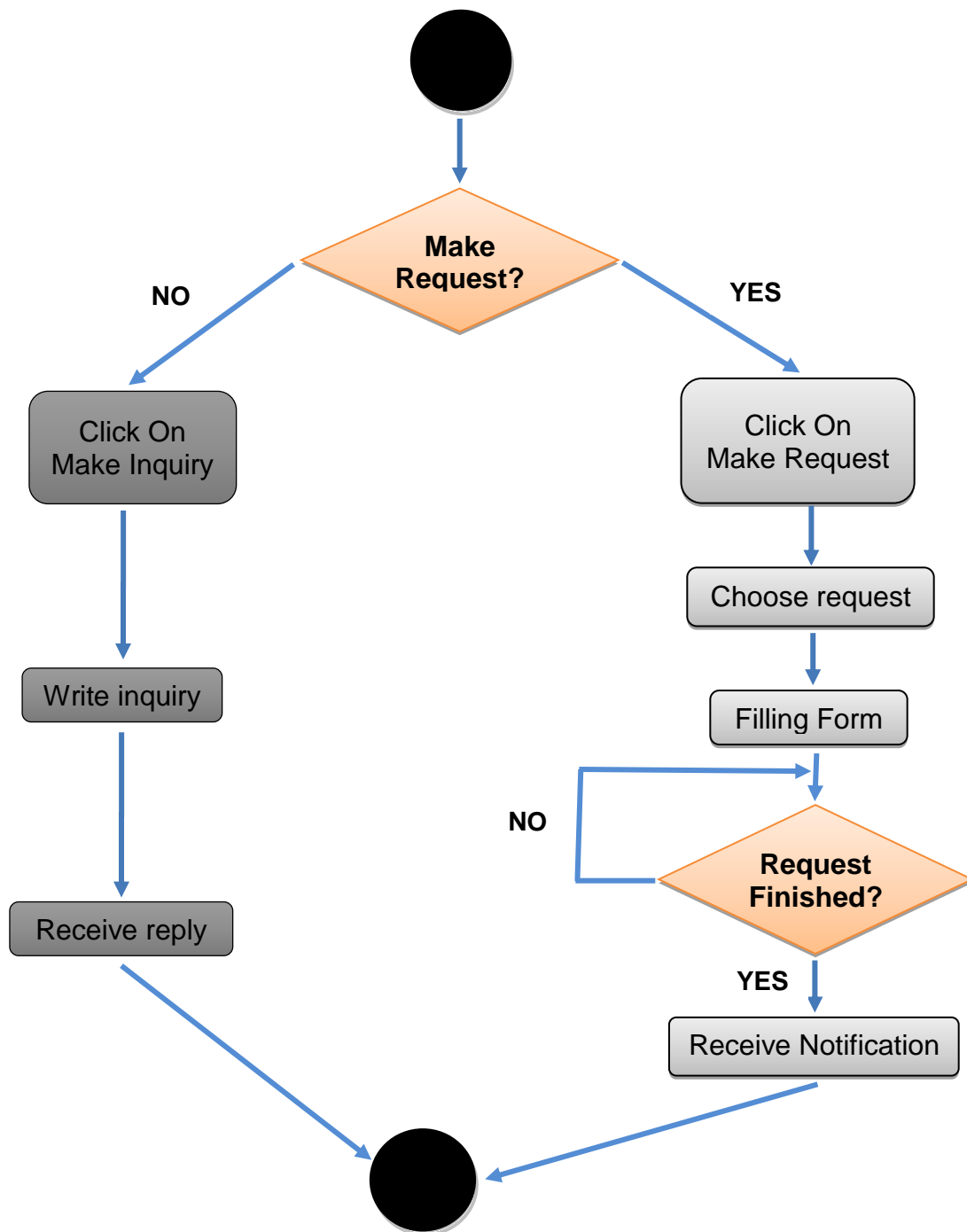

Data Processing

Data processing module is responsible on providing all data related services like data modeling and correction, data **transformation**, data **classifier** and **multimedia** processing. Data modeling and correction is required to understand the textual material based on the related language model. Data transformation is required to allow import and export of different data format. The system supports common data formats supported by common data processors applications. Multimedia processing is required to enhance the quality of multimedia contents like images. It converts multimedia contents to unified format.

Student Area

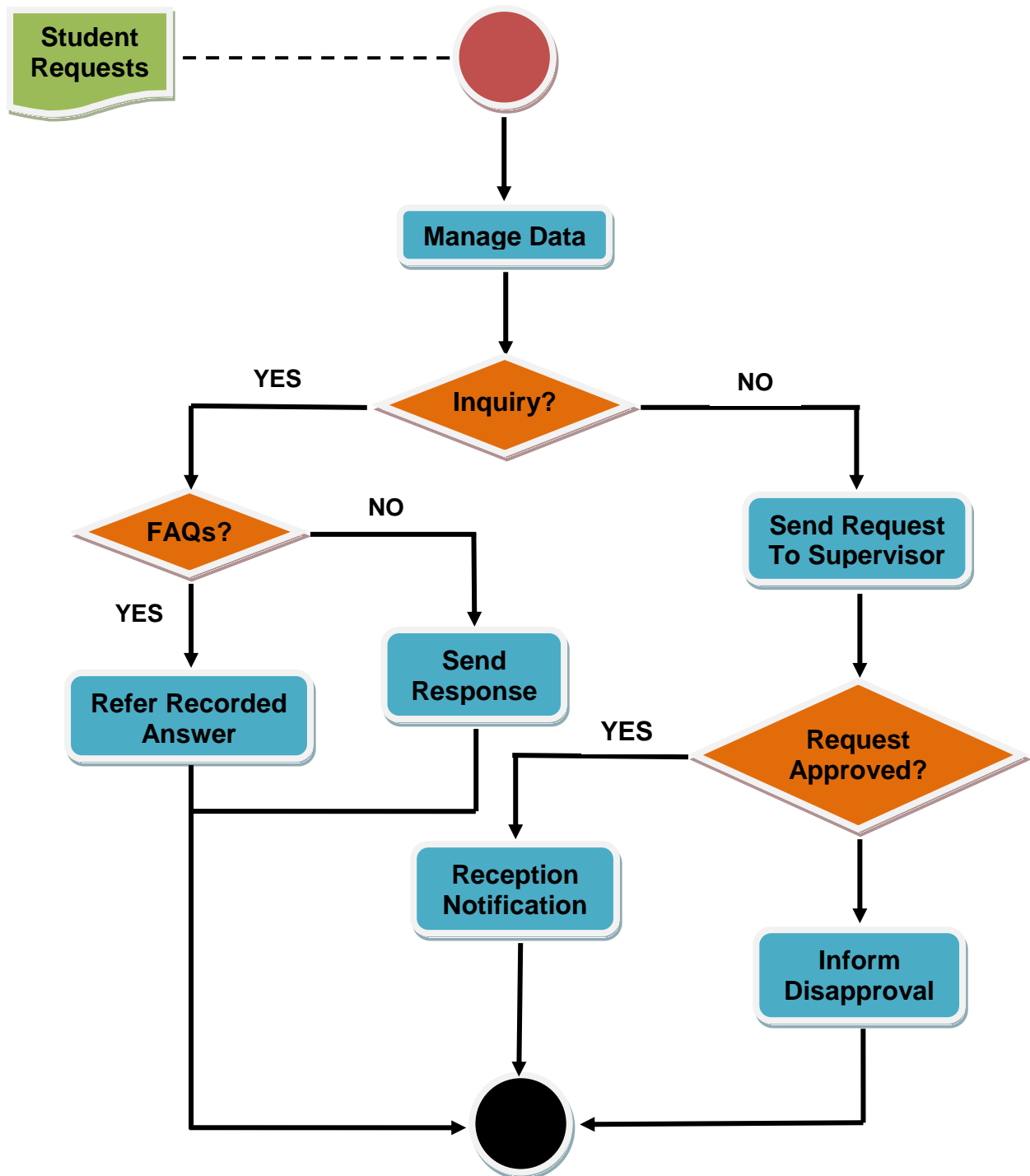This module provides all student needs in a very comfortable environment. The student can **request** the document he wants and fill all the required information and **pay online** for the documents that require some fees. The student will be notified when his document is finished. The student can send his **enquiries** to student affairs department and get **notification** when they answer it.

Employee Area

This module provides employee all the tools required to **manage** student affairs department. The employee will receive the student's request with student information. The employee can notify the student when his is paper is finished. The employee can answer students' questions online.

```
┌──────────────┐                    ●
│   Student     │ - - - - - - - - - ●  (red start)
│   Requests    │
└──────────────┘
                                    │
                            ┌───────────────┐
                            │  Manage Data  │
                            └───────────────┘
                                    │
        YES ◄─────────────◄   ◇ Inquiry? ◇   ►─────────► NO
        │                                                 │
   ◇ FAQs? ◇ ──── NO ────┐                      ┌──────────────────┐
        │                │                      │  Send Request    │
       YES               ▼                      │  To Supervisor   │
        │          ┌──────────┐                 └──────────────────┘
        ▼          │   Send    │                         │
┌──────────────┐   │ Response  │                 ◇ Request Approved? ◇
│ Refer Recorded│  └──────────┘                YES ◄────┘        │
│    Answer     │                                │              ▼
└──────────────┘          ┌──────────────┐       │      ┌──────────────┐
        │                 │  Reception   │◄──────┘      │    Inform     │
        │                 │ Notification │              │ Disapproval   │
        │                 └──────────────┘              └──────────────┘
        │                        │                             │
        └────────────────►   ● (black end)  ◄─────────────────┘
```

Student Administration Area

This module is dedicated for system administrators. System administrators responsible on system management, configuration, backup and solving technical issues. System administrator can view system status, data status, online sessions, logs and other system status and measures.
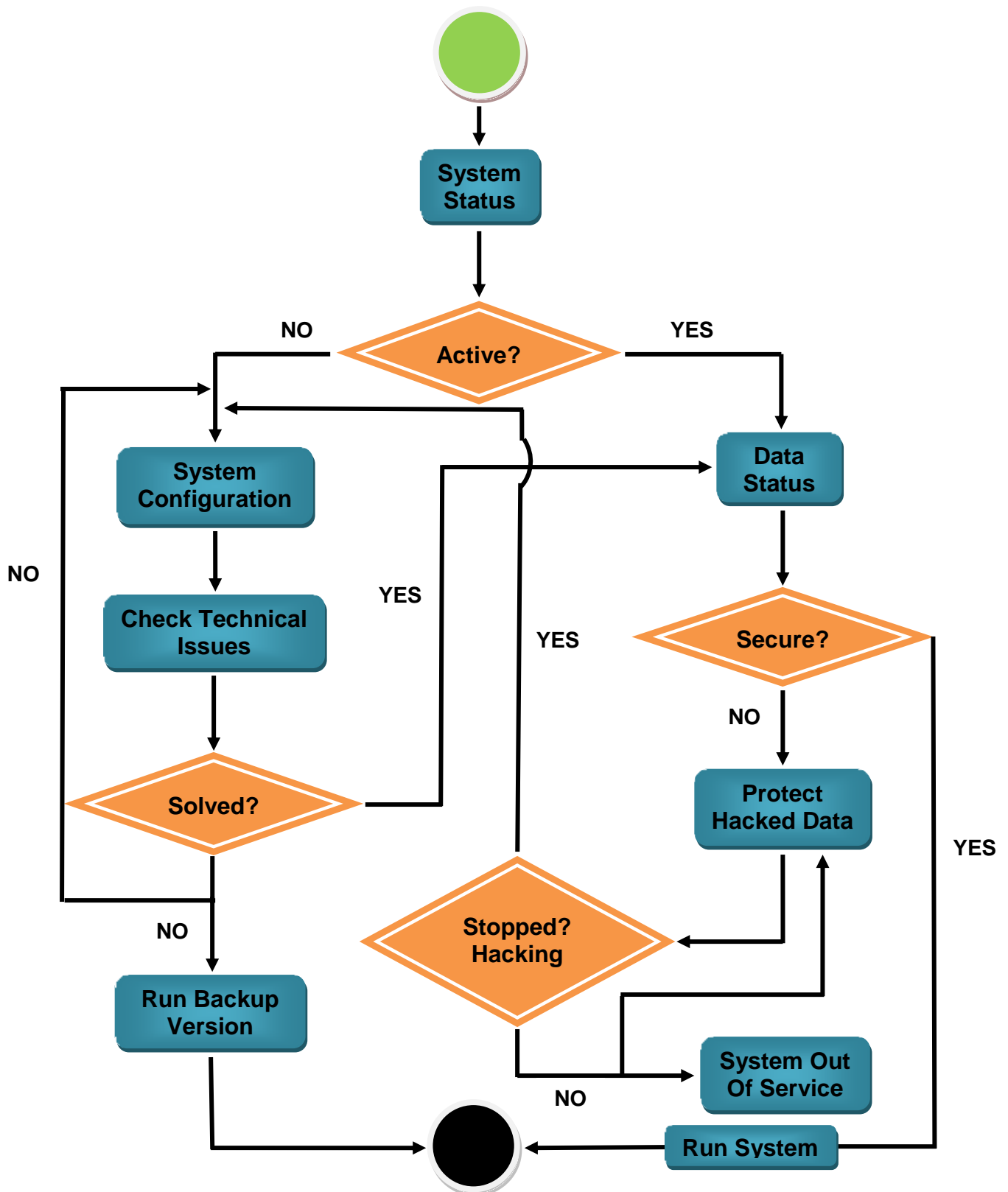
Supervisors Area

This module is dedicated for system operators. System operators are responsible on managing the system operation and contents. System operator can access all system contents, view statistical reports and provide direct support to users.
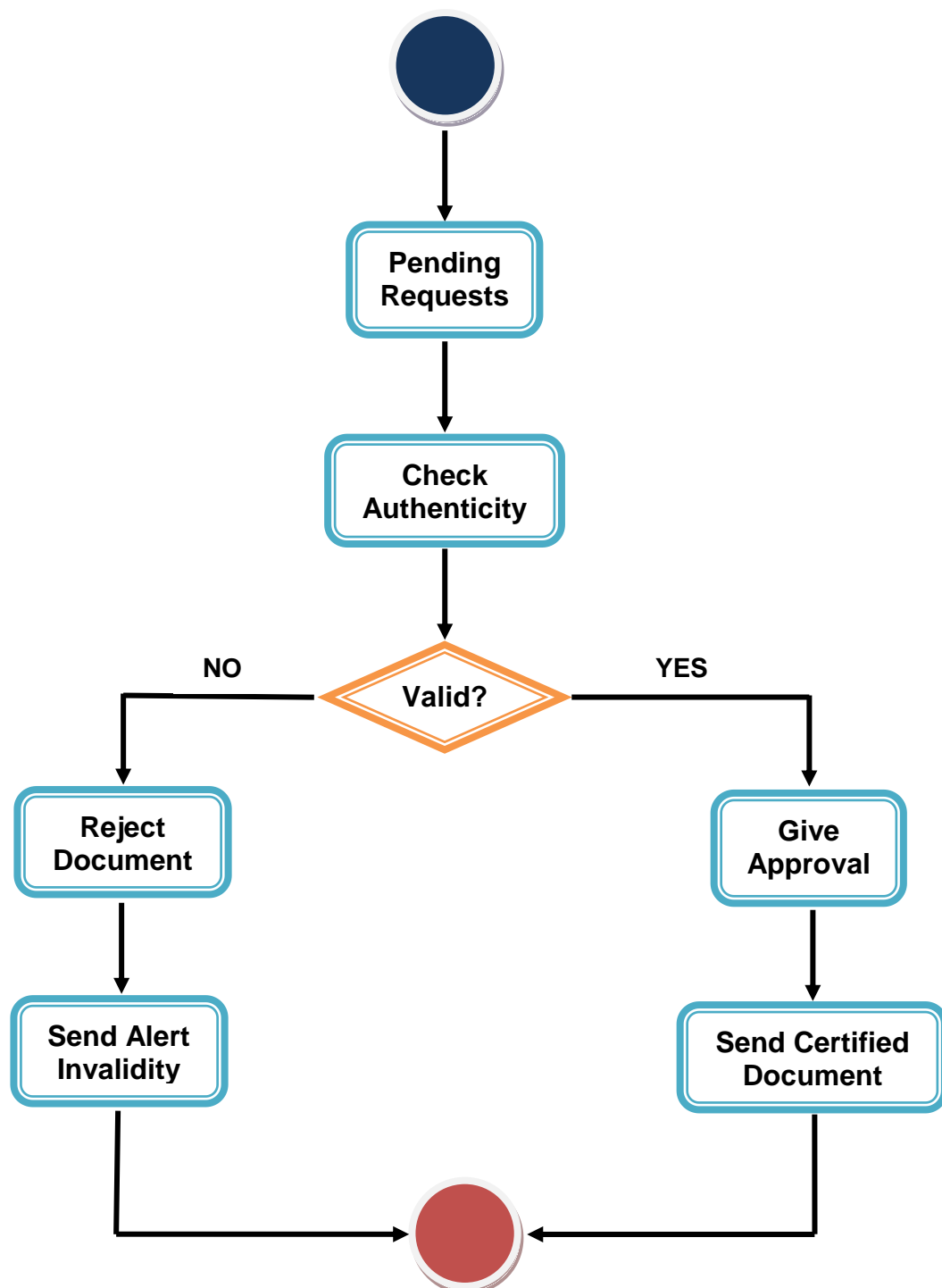
Security

Security module is responsible on user authentication and communications security. User can register/login using internal accounts. The portal access is made using https protocol in order to secure the communication. Security module also, responsible on managing the permissions and roles. Users are either students or employees. Security module also, responsible on detecting the threats and preventing data theft. The system is tested against common attacks using known penetration testing tools. Data theft is prevented using various data protection techniques.
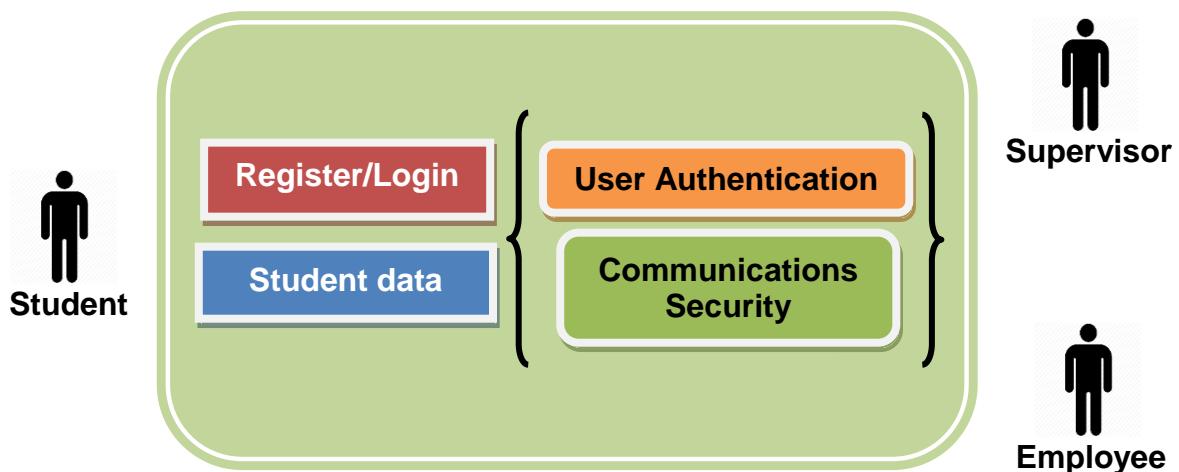
System State Machine Diagram
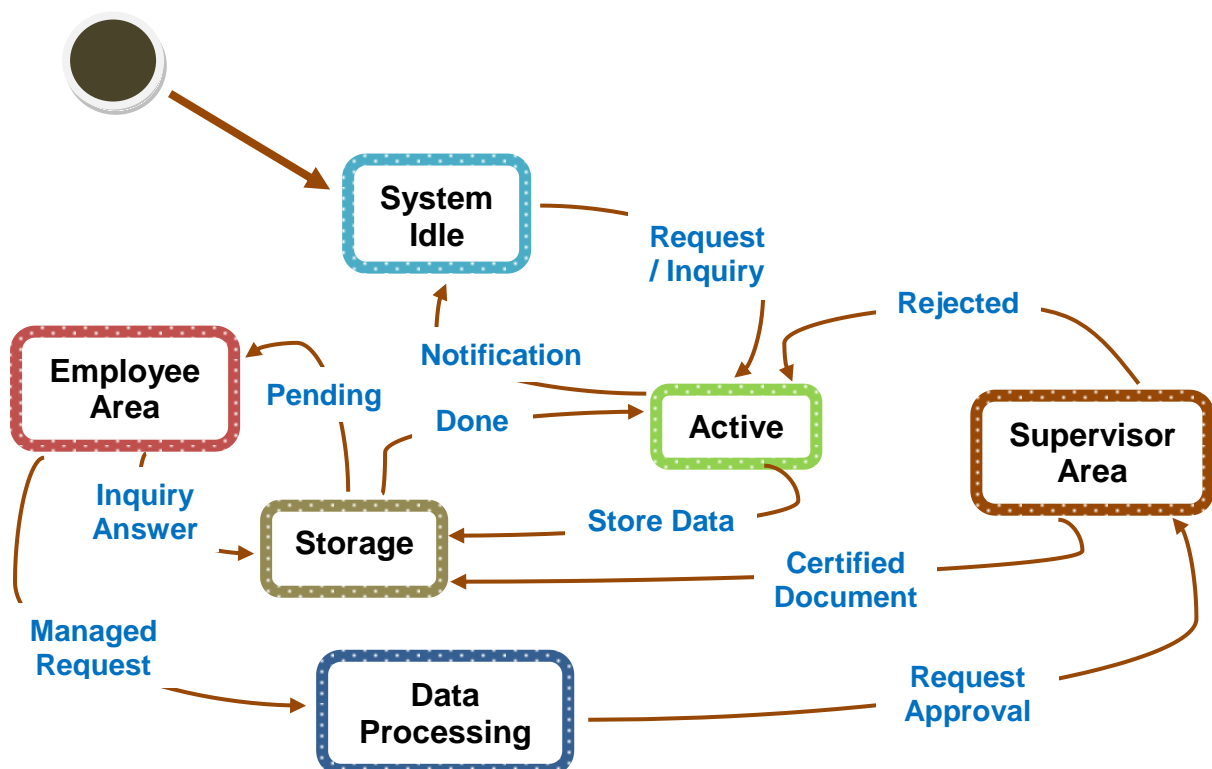
System Functions

1. Title: User Registration

Description: As the user has entered our website, he/she has to register to be able to access information page and create his/her own profile.

Input: The user must provide the user-name, university e-mail address, password. After the verification code is sent, the user must provide the code received.

Output: Verification code will be sent to user's university e-mail address. After providing the received code, the personal profile for the user is created.

2. Title: User Log in

Description: As the user has registered, then the user should be able to log in by entering his user-name or email address and his/her password.

Input: The user must provide the user-name or email address and his/her password.

Output: Open the information page and his/her personal profile.

3. Title: FAQs

Description: As the user has logged in, then the first page that is shown should include "FAQs" button. The user can press it, then will go to another page that contain several numbers of frequently asked questions and their answers.

Input: User should click on the FAQs button as well as the user can enter their question if he/she don't find it in the FAQs.

Output: New page with several number of frequently asked question and their answers, sending the new questions to the admins as to answer it and put it in the FAQs if it's a common one.

4. Title: Requests

Description: As the user has logged in, then the first page that is shown should include "Extract Paper" button. As the user click on it, it will open another page containing several Request forms. He/she can choose the required request and enter the required data. Also, he/she can view the progress of the request process.

Input: Clicking on the extract paper button, entering the required form information.

Output: Sending the request to the admin to follow the process to finish the required request.

5. Title: User Profile

Description: As the user has logged in, then the first page that is shown should include "Profile" button. As the user click on it, it will open another page containing his/her information. User can view all the requested forms he/she had done as well as viewing the current requests required and see its progress.

Input: Clicking on profile button and adding new personal information.

Output: viewing the previous requests, the current one and its progress.

6. Title: Notification

Description: As the user requested to extract paper, the request will be sent to the admins as to make the required process for the request, when the admins finish it, he/she will send a notification to the user informing the time to get the required paper from the student affairs office.

Input: Requiring certain request and fill-inthe required information then submitting it to the admins.

Output: Notification message will be sent with the specific time to get the required paper from the student affairs office.
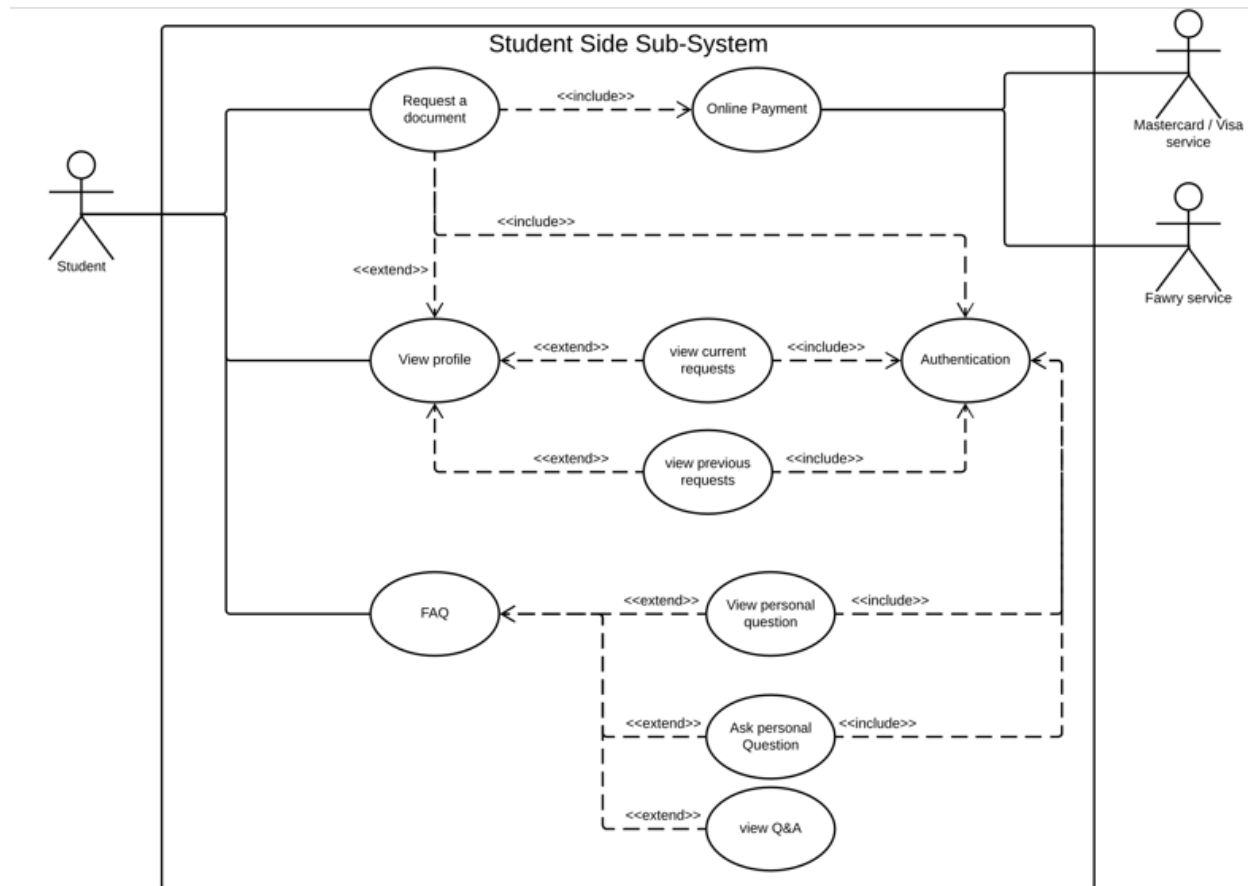
7. Title: Online Payment

Description: Some Requests need to pay fees for it. So, the user can pay online through "Fawry" by getting a code to pay with it.

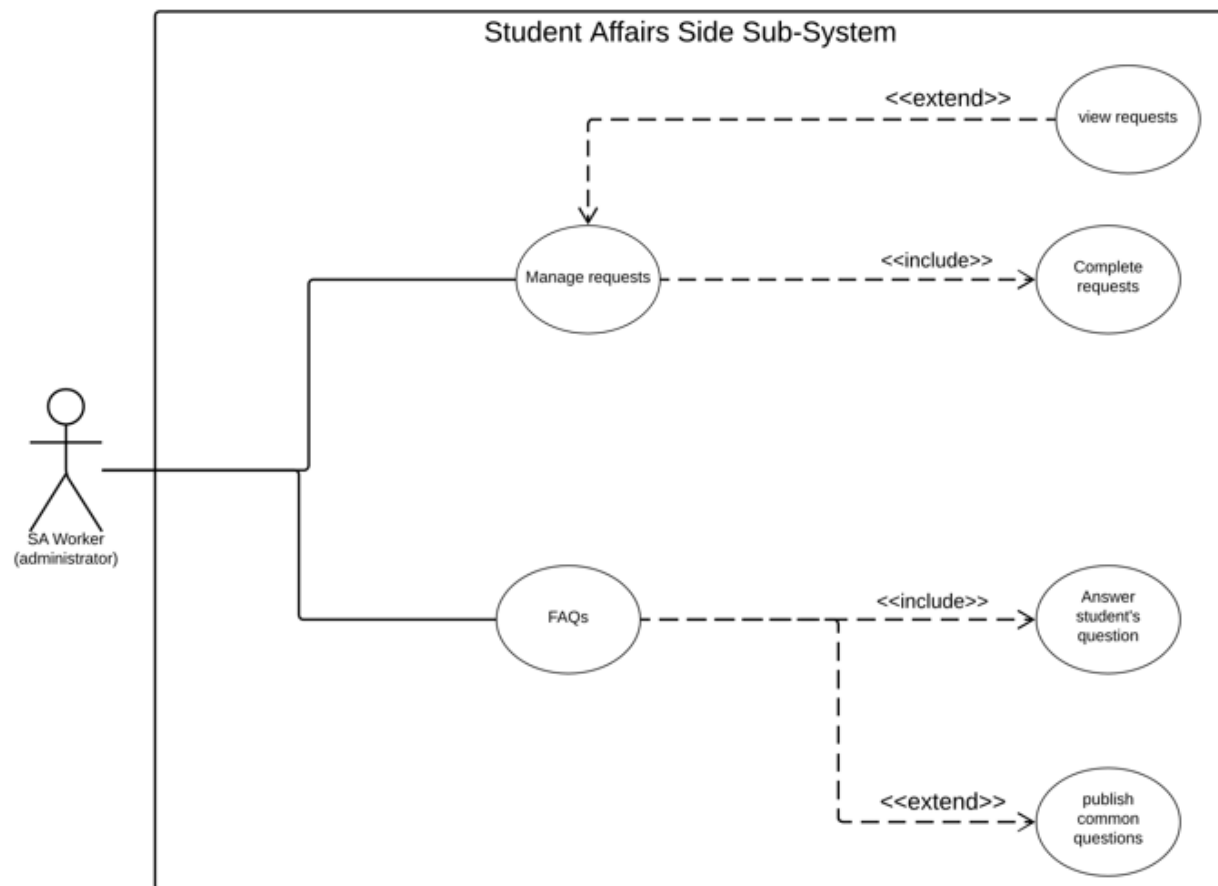Input: Requiring certain request which needs fees to be paid. Clicking on Fawry button to generate the code.

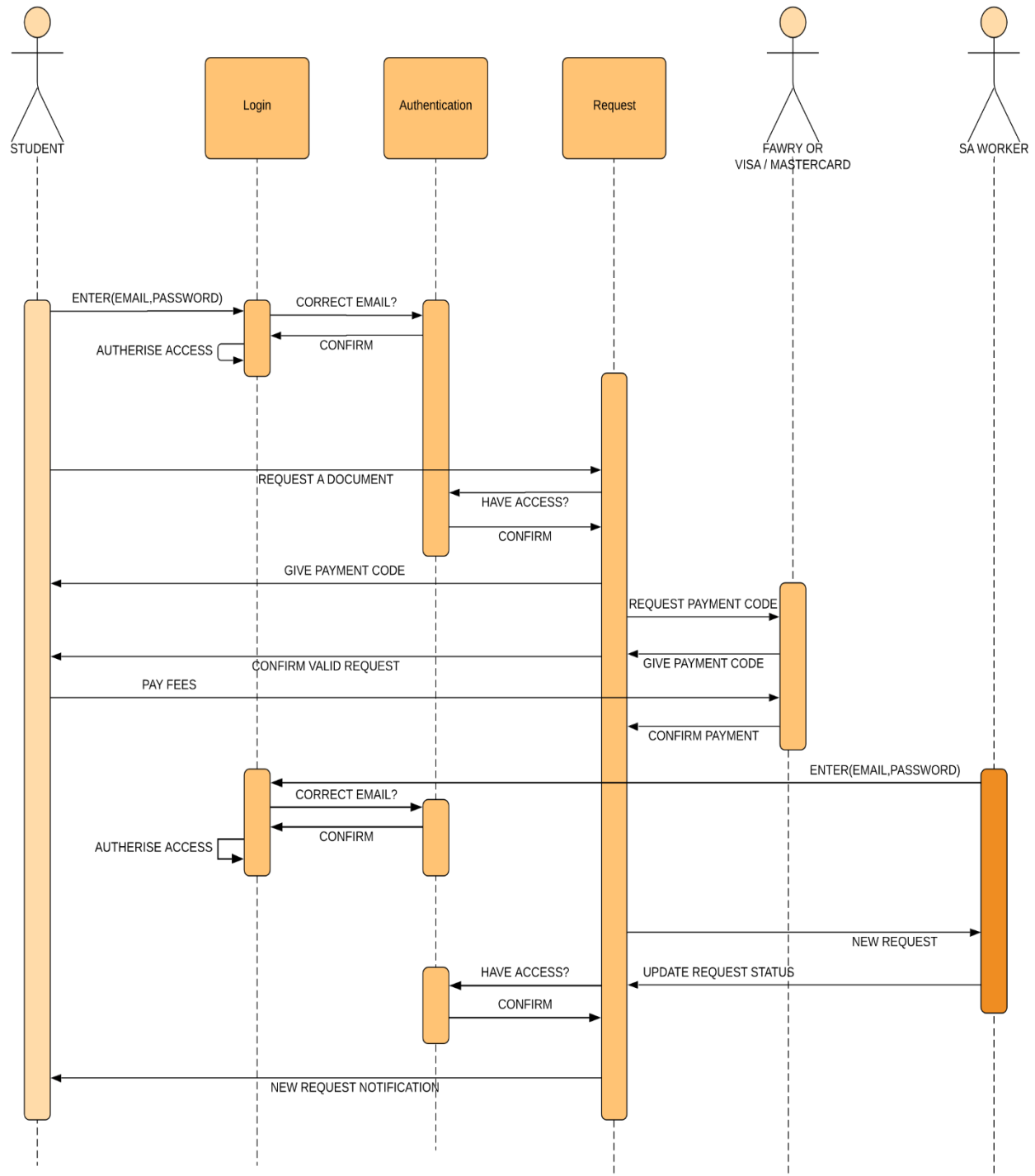Output: Special code will be generated to pay with it the required fees

System Models

Use Case Diagrams

Sequence Diagrams

STUDENT

LOGIN

AUTHENTICATION

FAQS

SA WORKER

ENTER(EMAIL,PASSWORD)

CORRECT EMAIL?

CONFIRM

AUTHERISE ACCESS

ASK A QUESTION

HAVE ACCESS?

CONFIRM

ENTER(EMAIL,PASSWORD)

CORRECT EMAIL?
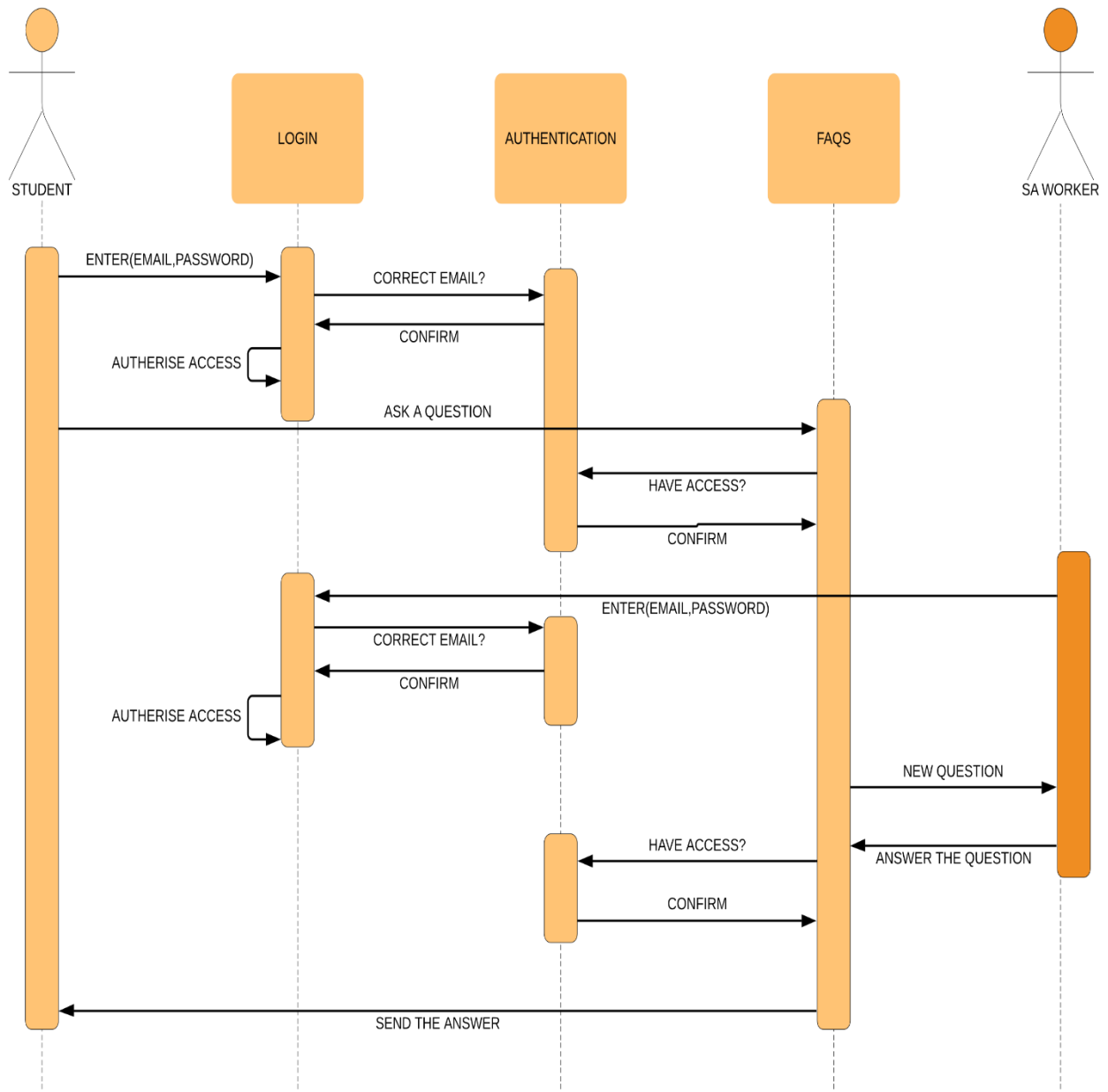
CONFIRM

AUTHERISE ACCESS

NEW QUESTION

HAVE ACCESS?

ANSWER THE QUESTION

CONFIRM

SEND THE ANSWER

Non-Functional Requirements

Performance

Student affairs system introduces huge amount of student information and many student services. The system offers the contents and service to both mobile and desktop users via web based.

Storage

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Usability

Students Affairs Website is a tool that will accelerate the workflow of SA department and offer great deal of comfort for both applicants and employees. Online student affairs offer answers for all student's enquiries and FAQs, easy & quick access to any document procedures, student can manage all his\her requests supported with online payment as well as mail notifications.

- Offers easy and effective online student affairs service.
- Offers recorded answers for frequently asked questions and inquiries about any document procedures.
- Offers effective way of students/affairs office interaction, document follow up and final reception.

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- Offers organized and secure way of certification and official documentation with online fees payment.
- Offers free and self-growing service to everyone

Development

The system development is performed using Agile methodology. Initial R&D activity should be applied to experiments tools and techniques. Later continuous R&D activity will run beside the system development activities. Student affairs will be developed using open source tools, languages and servers. This will decrease the cost especially for long term operation. While development only online tools will be used for management, tracking, testing and source control. This will increase the collaboration between team members even they are not located at the same place. Also, this will allow external teams and members to participate.

Technology

user can request forms and pay the required fees online through "Fawry" by generating code to pay with it also user get notifications when his/her request is done.

Operation

User can easily track and follow the request step by step through all the procedures to get frequent feedback and updated time.

The system consists of following modules: (1) Student Area, (2) Employee Area, (3) System Administration Area, (4) supervisors Area.

1- Student Area

This module provides all student needs in a very comfortable environment. The student can request the document he wants and fill all the required information and pay online for the documents that require some fees. The student will be notified when his document is finished. The student can send his enquiries to student affairs department and get notification when they answer it.

2- Employee Area

This module provides employee all the tools required to manage student affairs department. The employee will receive the student's request with student information. The employee can notify the student when his is paper is finished. The employee can answer students' questions online.

3- System Administration Area

This module is dedicated for system administrators. System administrators responsible on system management, configuration, backup and solving technical issues. System administrator can view system status, data status, online sessions, logs and other system status and measures.

4- Supervisors Area

This module is dedicated for system operators. System operators are responsible on managing the system operation and contents. System operator can access all system contents, view statistical reports and provide direct support to users.

Domain Requirements

The system need some information from students to make their paper, so we will explain all paper can be extracted with the requirement information.

Name	National id	Student ID	Division	Army card	Metro form	reasons	To where	Graduation year	English Option	payment confirmed
Proof of enrollment	✓	✓	✓				✓		✓	✓
Metro card	✓	✓	✓		✓					✓
Training Form	✓	✓								✓
Degree Statement		✓	✓						✓	✓
Postponed exams						✓				✓
Graduation certificate	✓							✓	✓	
Id card	✓	✓		✓						✓
Certificate of dismissal	✓	✓	✓							
Health card	✓	✓	✓							✓
Replacement of lost id	✓	✓	✓			✓				✓

System Interfaces

User Interfaces

Registration-Form

Full Name :   Enter your full Name

Student ID :   Enter your ID

Email :   Enter your email

Password :   Enter your Password

Year: prepratory ▾

Division: Computer

Submit

Student Affairs - SRS

Requests

اختر طلبك | choose your request

كارنيه مترو ▼

تنفيذ

الاسم باللغة الانجليزية | الاسم باللغة العربية

العنوان

Main St 1234

سبب الاستخراج

رقم الهاتف | الفرقة | القسم | تاريخ الميلاد

الاعدادية ▼

تأكيد

FAQs

متى تظهر نتيجة التظلمات

ادفع المصاريف ازاى

كيف يتم تأجيل مادة

بتفتحوا امتى و تقفلو امتى

still need to contact us?

اكتب استفسارك

ارسال