Psuedocode

Login module
Start

    if loginBtn is pressed:

        get username

        get password

        if authenticate(username, password) is success:

            Redirect to home_page

        else

            Print error_message

        end if

    end if

End

AddUser Module
Start

    if loginBtn is pressed:

        get username

        get password

        get usertype

        get email

        get dob

        get gender

        get address

        if info is valid:

            addUser(username, password, usertype**,** email**,** dob, gender, address)

        end if

    end if

End

DeleteUser Module
Start

    if deleteBtn is pressed

        deleteUser(username)

    end if

End

EditUserStatus
Start

    if editBtn is pressed:

        editStatus(username)

        get Status

        updateStatus(username, status)

    end if

End

Application Module(Applicant)
Start

    If applyBtn pressed:

        get name

        get dob

        get gender

        get ic

        get nationality

        get address

        get qualification

        get document

        get paymentstatus

        get programme

        get photo

        get type

        get timestamp

        If application form is full fill:

            print success_message

        else

            Print error_message

        end else

End

Application Module(Admin)
Start

    display application list

    If approvalBtn pressed:

        process to **AddUser Module**

    end if

End

Transaction Module - Chris
Start

    if (verified payment is selected)

        get photoFile

        get receiptRefNo

        while (photoFile format is not PNG, PDF, GIF, JPEG or receiptRefNo is
empty)

            print error message

            get photoFile

            get receiptRefNo

        end while

    else

        Break

    end else

End

Appointment Module (Student) - Chris
Start

 get userSearch
 print all lecture names
 get selectedUser
 User is directed to lecture profile page
 if (make appointment is selected)
  get time
  get date
  While (time is less than 1 hour or date is before current date)
   get time
   get date
  end while
 else
  Break
 end if
 Database is updated with time, date, studentID and LecID
 // LecID and studentID will be autofilled

Appointment Module (Lecture) - Chris
Start

 if (approve is selected)
  Update status of appointment in database to approve
 else if (reject is selected)
  Update status of appointment in database to reject
 else
  Break
 end if
End

File Management Module
Start

 If uploadBtn pressed:
  get file
  get file_name
  If file is valid:
   upload(file, file_name)
  else:
   showError("File should be in .pdf, .docx format.)
  end if

 else If deleteBtn pressed:

```
        get file.id
        file.delete(pk=id)

else if downloadBtn pressed:
        get file.id
        get file(pk = id)

else if searchBtn pressed:
        get search
        for result in file:
                if search == result
                        display result
                end if
        end for

 end if
End
```

Subject Management Module (Admin)
Start

```
If addSubjectBtn pressed:
        get subject_name
        get subject_fee
        get subject_creditHour
        subject(subject_name, subject_fee, subject_creditHour )
```

End

Subject Management Module (Student)
Start

```
If enrollBtn pressed:
        get subject.id
        enroll(student.id, subject.id)

else If deleteBtn pressed:
        get enroll.id
        enroll.delete(pk=id)
end if
```
End

Issues Faced & Plans to Solve It

Ng Jing Keong:
- Basically I'm not the person that good at programming, even more Django and HTML is a new language that I never learnt before, so it's taking a lot of time for me to learn how to code out the interface and also the logic behind the project.
  Solution:
  Discuss with my groupmates or friends that have good programming skill, ask for their advice and solution.
- Limited time to complete the whole project.
  Solution:
  Taking more time and hardworking in learning those language through YouTube or programming forums (stackoverflow etc.) .
- Some of our members is staying far away from campus, not convenient for them to stay up too late to discuss our project together.
  Solution:
  Set a meeting at least once a week during the interval of the classes, and also keep inform all the updates and changes to all of our members.

Goh Kun Shun:
- During the development of the system, when we're trying to combine the back end code with the front end code (the HTML files) we run into some problem where the HTML doesn't display properly as intended or certain field are missing.
  Solution:
  Communicate with my fellow developer that are in charge of the front end design and work together to make sure both layer works properly
- Since we have decided to use Django, a web application framework that are "batteries included", certain modifications onto the pre-built user class are needed to fulfill our system's requirement, due to the unfamiliarity with the framework, I've run into problem while trying to implement the user class.
  Solution:
  Research more on the practice that are adapted when developing in the framework. Read more of the framework's documentation and also refer to online forums.

Christopher Too:
- Unfamiliar to the term and syntax use in Django. Therefore resulting in a slower pace in progress
  Solution:
  Communicate with my fellow teammates to solve the problem and refer to online resources to increase pace of progress.

Ong Koon Hua:
- Not quite understand about syntax and implement in Django and HTML
  Solution:
  Take more time to understand and study to Django and HTML through Youtube

channel and online forums. Make group study with friend who more familiar with Django and HTML.

Eric Chia Teck Han:
- Unfamiliar with the syntax, implementation between Django and HTML.It causes a lot of problem when I communicate with my teammates even though it was already week 8.
  Solution:
  The only way to catch up is learning through YouTube and some tutorial website, increase the rate of coding myself instead of just looking tutorials. Asking teammates for advises if something has confused me.