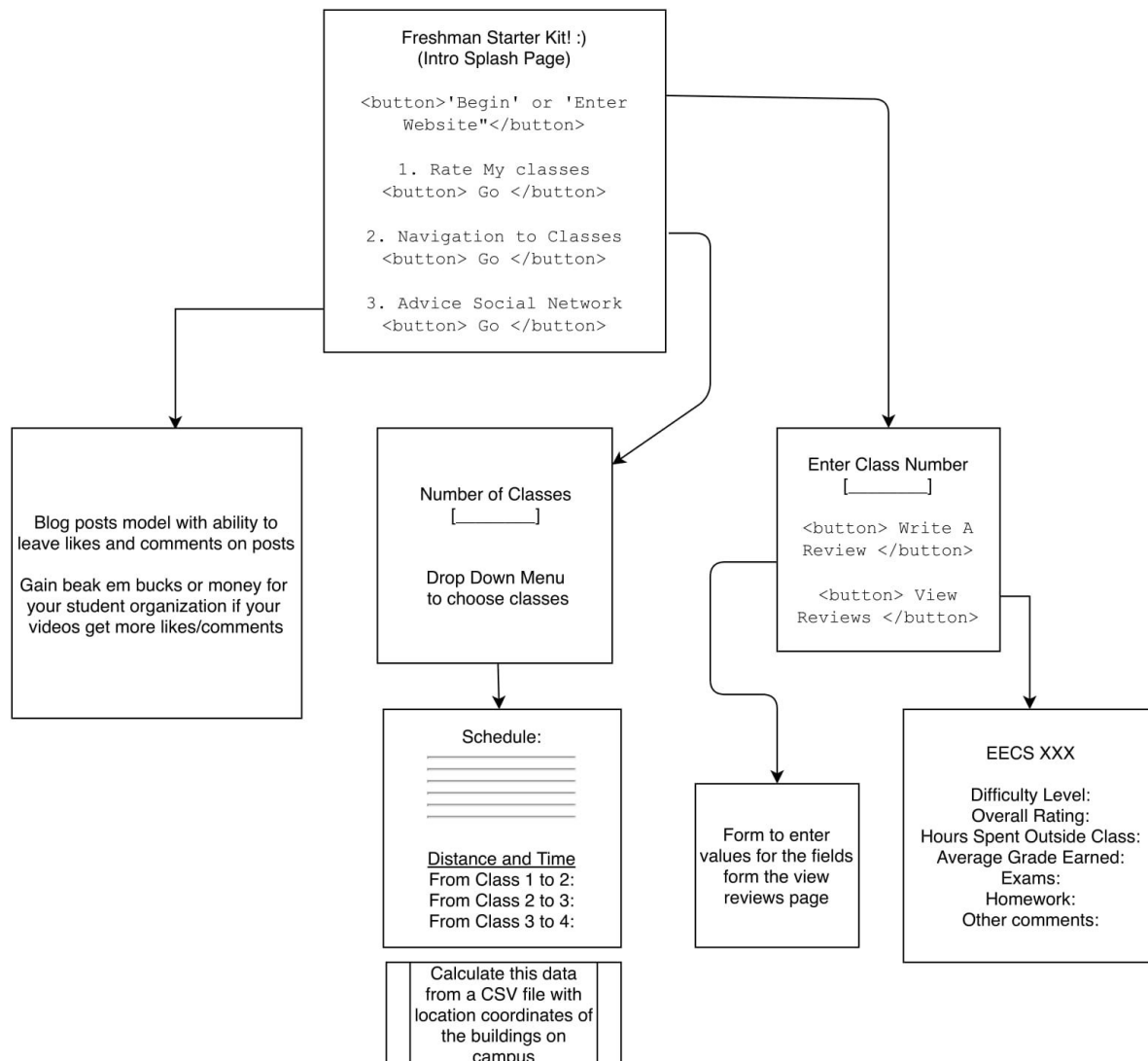# EECS 448 Project 3 Documentation

Team: CodeHers

Freshman Starter Kit
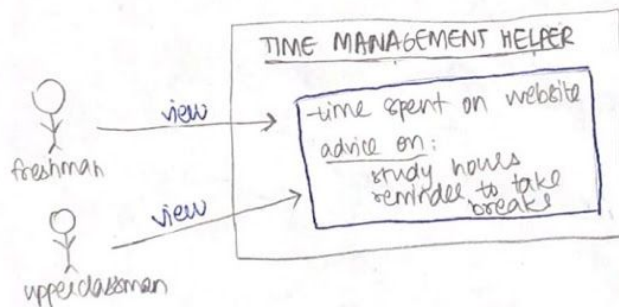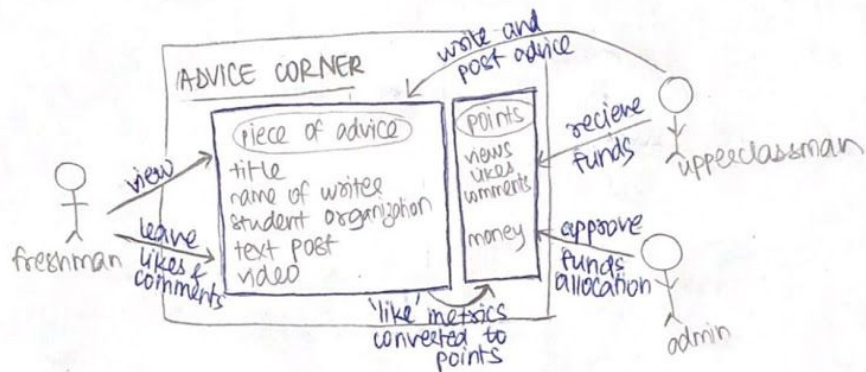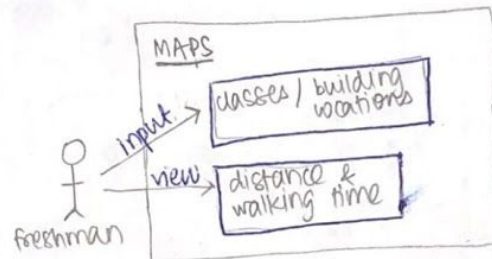
UML

State Diagram


```
Freshman Starter Kit! :)
(Intro Splash Page)

<button>'Begin' or 'Enter
    Website"</button>

  1. Rate My classes
 <button> Go </button>

2. Navigation to Classes
 <button> Go </button>

3. Advice Social Network
 <button> Go </button>
```

```
Blog posts model with ability to
leave likes and comments on posts

Gain beak em bucks or money for
your student organization if your
videos get more likes/comments
```

```
Number of Classes
[_____]

Drop Down Menu
to choose classes
```

```
Enter Class Number
[_____]

<button> Write A
Review </button>

<button> View
Reviews </button>
```

```
Schedule:
_____
_____
_____
_____

Distance and Time
From Class 1 to 2:
From Class 2 to 3:
From Class 3 to 4:
```

```
Calculate this data
from a CSV file with
location coordinates of
the buildings on
campus
```

```
Form to enter
values for the fields
form the view
reviews page
```

```
EECS XXX

Difficulty Level:
Overall Rating:
Hours Spent Outside Class:
Average Grade Earned:
Exams:
Homework:
Other comments:
```
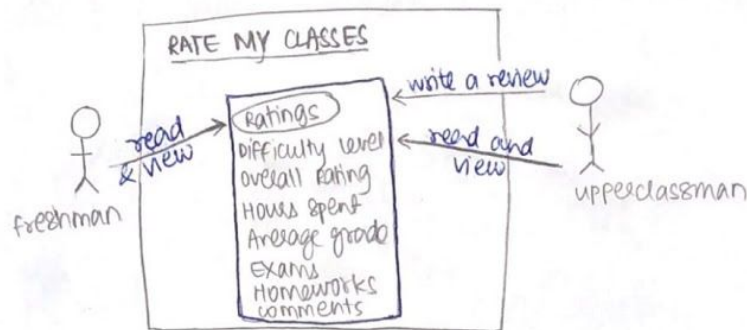
Hitting 'begin' triggers a timer to keep track of how much time has been spent on the website. This shows up on the time management page and offers tips on taking study breaks.
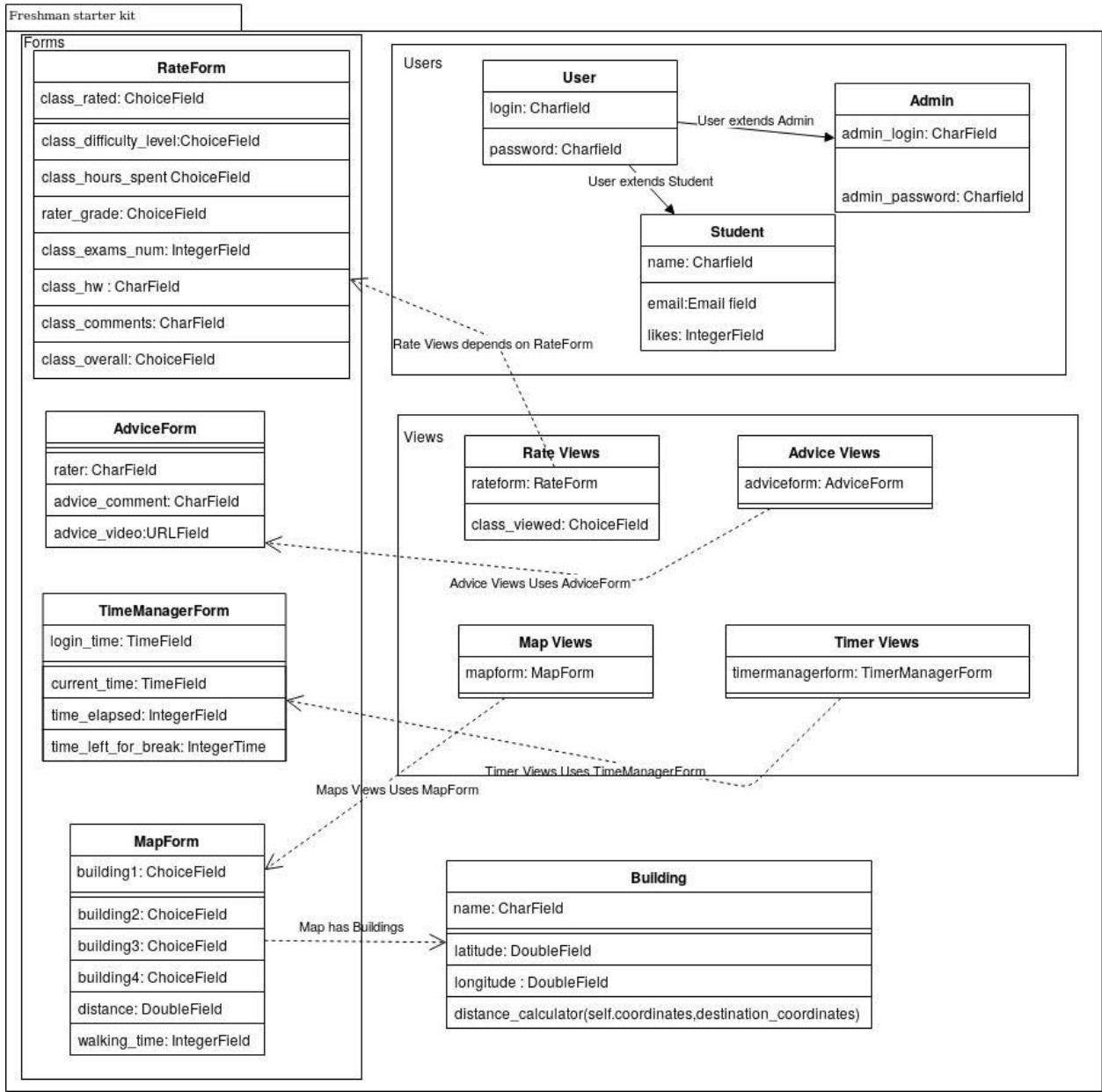
Use Case Diagram

RATE MY CLASSES

freshman — read & view → Ratings
Difficulty level
Overall rating
Hours spent
Average grade
Exams
Homeworks
comments
← write a review — upperclassman
← read and view —

MAPS

freshman — input → classes / building locations
— view → distance & walking time

ADVICE CORNER

freshman — view → piece of advice
title
name of writer
student organization
text post
video
— leave likes & comments →

Points
views
likes
comments
money

write and post advice — upperclassman
← recieve funds —

approve funds allocation — admin

'like' metrics converted to points

TIME MANAGEMENT HELPER

freshman — view → -time spent on website
advice on:
study hours
reminder to take breaks

upperclassman — view →

USE CASE MODEL
freshman starter kit

Class Diagram

Freshman starter kit

Forms

RateForm

RateForm
class_rated: ChoiceField
class_difficulty_level:ChoiceField
class_hours_spent ChoiceField
rater_grade: ChoiceField
class_exams_num: IntegerField
class_hw : CharField
class_comments: CharField
class_overall: ChoiceField

AdviceForm

AdviceForm
rater: CharField
advice_comment: CharField
advice_video:URLField

TimeManagerForm

TimeManagerForm
login_time: TimeField
current_time: TimeField
time_elapsed: IntegerField
time_left_for_break: IntegerTime

MapForm

MapForm
building1: ChoiceField
building2: ChoiceField
building3: ChoiceField
building4: ChoiceField
distance: DoubleField
walking_time: IntegerField

Users

User

User
login: Charfield
password: Charfield

User extends Admin

Admin

Admin
admin_login: CharField
admin_password: Charfield

User extends Student

Student

Student
name: Charfield
email:Email field
likes: IntegerField

Views

Rate Views

Rate Views
rateform: RateForm
class_viewed: ChoiceField

Rate Views depends on RateForm

Advice Views

Advice Views
adviceform: AdviceForm

Advice Views Uses AdviceForm

Map Views

Map Views
mapform: MapForm

Maps Views Uses MapForm

Timer Views

Timer Views
timermanagerform: TimerManagerForm

Timer Views Uses TimeManagerForm

Building

Building
name: CharField
latitude: DoubleField
longitude : DoubleField
distance_calculator(self.coordinates,destination_coordinates)

Map has Buildings

Gantt Chart

Task	Dates
Use-case diagram(Archana)	Oct 26 - Oct 30
State diagram(everyone)	Oct 26 - Oct 30
Class diagram(everyone)	Oct 28 - Oct 30
Product Backlog(everyone)	Oct 26 - Oct 26
Install Django(everyone)	Oct 26 - Oct 28
Do practice project(everyone)	Oct 26 - Oct 28
Spalsh Page(Archana)	Oct 28 - Oct 30
Link pages from homepage(Victoria and Archana)	Oct 28 - Oct 30
Enter building page for Maps page(Archana)	Oct 28 - Oct 30
Comments Page for Rate Class(Victoria)	Oct 28 - Nov 1
View Page for Rate Class(Anjali)	Oct 28 - Nov 1
Page showing distance and time(Archana)	Oct 28 - Nov 1
Documentation of code(Sindhu)	Oct 31 - Nov 1
Django Workshop(Anjali, Archana, Victoria)	Nov 2 - Nov 2
Demo(everyone)	Nov 4 - Nov 8
Team & self evaluations (everyone)	Nov 4 - Nov 7
Bug fixes(everyone)	Nov 4 - Nov 15
Adding database functionality(Archana, Victoria)	Nov 4 - Nov 15
Adding bootstrap to all pages(Anjali, Victoria)	Nov 4 - Nov 15
Parse user input and calculate time and distance(Archana)	Nov 4 - Nov 15
Fetch review data for classes(Victoria)	Nov 4 - Nov 15
Use Google maps API for maps(everyone)	Nov 15 - Nov 22
Add ability to add iframe advice videos(everyone)	Nov 15 - Nov 22
Include browser clock functionality(everyone)	Nov 15 - Nov 22
Fix bugs(everyone)	Nov 22 - Nov 25
Documentation(Sindhu)	Nov 22 - Nov 25
Thanksgiving	Nov 27 - Dec 1
Demo(everyone)	Dec 2 - Dec 6
Team & self evaluations(everyone)	Dec 2 - Dec 5

Scrum Artifacts

Product Backlog

1. Login
    a. Create account to navigate the website
    b. Use Django authentication system and create user objects
    c. Ambitious goal- give role based access based on if it is a freshman, upperclassman or admin
2. Rate my class
    a. Upperclassmen rate EECS classes to help freshman decide their course load
    b. Will need a ratings form and a page to view all of the ratings in blog form
3. Upload advice videos
    a. Gain beak - em - bucks or money for your student organization if your videos get more likes/comments
    b. Upperclassmen rate can upload blog posts of advice or videos
    c. Use template from DjangoGirls workshop blog project
4. KU Maps
    a. Marks places you have classes shortest distance, walk time
    b. Database and model object with location coordinates of buildings - use CSV, calculate the shortest distance between the two location coordinates, use average walking speed to determine walking time
5. Time Management
    a. Reminders to take break depending on how long they have been active on the website. "Enter Website"button on homepage triggers timer to start.
    b. Need a way to track time spent on website using Django/Python built-in methods

Sprint Backlog for Project 3

Sprint 1
- UML for Web UI
- Gantt Chart
- Django installation and tutorial

Sprint 2
- Reinstalling django and virtual environment to troubleshoot
- Admindocs- documentation generator (install docsutil)
- Linking other landing pages from the homepage

Sprint 3
- Put together documentation pieces
- Clean up home page
- Division of labor-task assignments, and deciding the scope of the project
- Anjali and Sindhu started working on the landing pages -Rate My Class & Advice Page.
- Victoria and Archana started working on the forms required for the KU Maps and Rate My Class pages

Sprint 4
- Finish Diagrams required for documentation
- Finish the landing pages for the 4 options
- Model forms for Maps (Archana) - Model forms saves the user input to database and allows you to output it to the website
- Finish Gantt chart

Sprint 5
- Attend Django workshop
- Finish the landing pages for the 4 options
- Model forms for Maps and landing page (Anjali)
- Backend distance calculator- in progress (Archana)
- Model forms for Rate My Class (Victoria)
- Documentation (Sindhu, Archana)

Sources:

Diagram Builder

draw.io

Bootstrap

Bootstrap Time manager: https://startbootstrap.com/themes/agency/

Bootstrap for uploading videos form: https://getbootstrap.com/docs/4.0/components/forms/

Bootstrap for ratings form:

https://startbootstrap.com/snippets/sign-in-split/?fbclid=IwAR3OAkj_Z0Ah-ggOSDp4E9FuH5QZ
nl1r0AUFERMoQITOIhdzMIfRGeoRpGI

Bootstrap theme for homepage https://startbootstrap.com/previews/stylish-portfolio/

Bootstrap theme for advice landing page https://startbootstrap.com/themes/business-casual/

Bootstrap for class view: https://startbootstrap.com/snippets/portfolio-one-column/

Images used from:

https://www.pexels.com

https://unsplash.com

Tutorials Used

Initial Setup: https://youtu.be/PqeAvFf_HDI

Form for maps: https://youtu.be/3XOS_UpJirU

Forms for ratings: https://tutorial.djangogirls.org/es/django_forms/

https://docs.djangoproject.com/en/2.2/topics/forms/

For sidebar: https://www.w3schools.com/howto/howto_js_sidenav.asp

Django Workshop from KC Women in Technology: https://tutorial.djangogirls.org/en/