1. The **product backlog**: a complete list of all functionality (i.e., the actions) of your project, and an English description of each action. We strongly suggest that you organize these features into groups/modules based on related functionality.

Function: Load analysis report Function: Course filtering, selecting and loading
Function: Post

Main Page

- OAuth
- Search course experience by course number
- Post experience of a course
- View some new added experience posts
- Go to discussion board

Course Info Page

- View the course information (course number, credit, class semester)
- View the load score (heavy load or light load) from students' experience
- View the grade score (easy-A or tough grader) from students' experience
- View the difficulty score (hard, intermediate or simple) from students' experience
- View the past grade distribution from students' experience (data are according to those who share their experience, not from course instructor)
- View the top 3 most recent experience

Post Experience Page

- Enter/choose course number
- Enter/choose the semester when the student takes the course
- Add subject (e.g. Great; Recommended; Good score; Heavy load)
- Add content
  - Learn what
  - Course evaluation (# of quizzes, assignments, midterm exam, final exam)
  - Course experience (how's the course)
  - Other
  - Recommend what kind of students
    (e.g. interested in web; want high score; want more sleep)
- Give level (1-5) of load
- Give level (1-5) of grade
- Give level (1-5) of difficulty

- Give your grade [optional]
- Choose to post anonymous
- Submit post

Discussion Board Page

- Post
- Comment

2. The **first sprint backlog**: a complete list of the functionality you will complete during your first sprint, and how that work is allocated among your team members.

   Course Info Page

   - View the course information (course number, credit)
   - View the load score (heavy load or light load) from students' experience
   - View the grade score (easy-A or tough grader) from students' experience
   - View the difficulty score (hard, intermediate or simple) from students' experience

   Post Experience Page

   - Enter course number
   - Enter course name
   - Enter the semester when the student takes the course
   - Choose credit
   - Enter professor firstname and lastname
   - Add subject (e.g. Great; Recommended; Good score; Heavy load)
   - Add content
   - Give level (1-5) of load
   - Give level (1-5) of grade satisfaction
   - Give level (1-5) of difficulty
   - Give your grade [optional]
   - Choose to post anonymous
   - Submit post

   Discussion Board

   - User making posts, showing user name, post contents(only allow text currently)
   - User making comments below posts, showing user name, comment contents

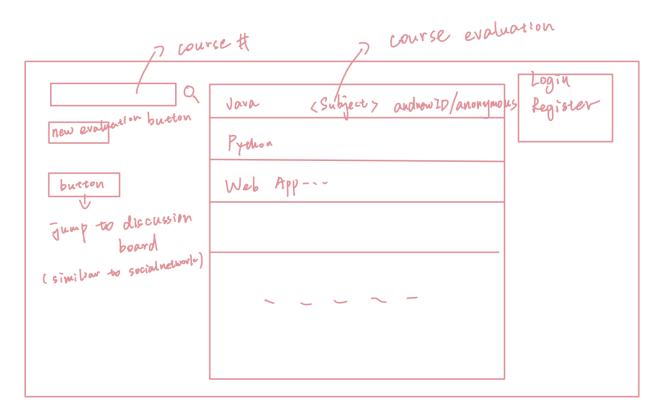3. The name and Andrew ID of the product owner for the first sprint.

   Hsueh-i, Lu (hsuehil)

   Yuting Long (yutinglo)

   Yihan Cao (yihanc)

4. A complete implementation of the data models used by your application. This may be written in as Django **models**, SQL, or some equivalent style implementation if you use another framework.
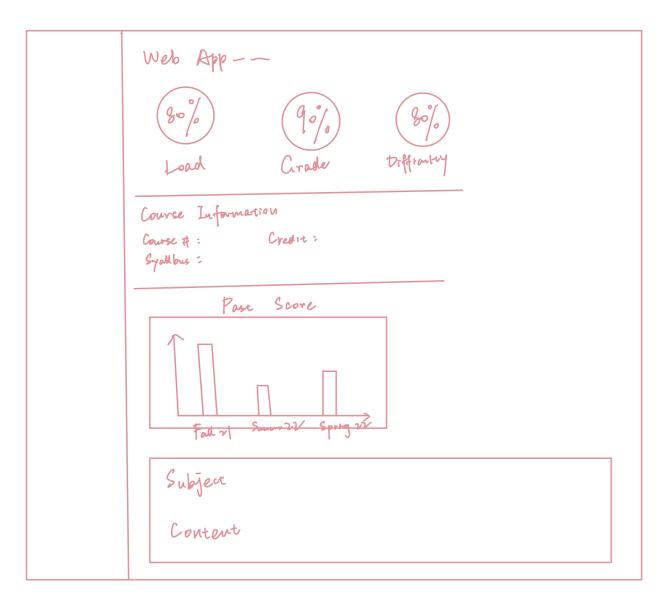
```python
cmuplus > 🐍 models.py
1    from django.db import models
2    from django.contrib.auth.models import User
3
4    LEVEL_CHOICES = [
5        ('1', '1'),
6        ('2', '2'),
7        ('3', '3'),
8        ('4', '4'),
9        ('5', '5')
10   ]
11
12   CREDIT_CHOICES = [
13       ('1', '6'),
14       ('2', '12')
15   ]
16
17   # Create your models here.
18   class CourseExperience(models.Model):
19       # required
20       # user = models.ForeignKey(User, on_delete=models.PROTECT, blank=True)
21       course_number = models.CharField(max_length=10)
22       course_name = models.CharField(max_length=200)
23       semester = models.CharField(max_length=20)
24       credit = models.CharField(max_length=1, choices=CREDIT_CHOICES, default=CREDIT_CHOICES[0][1])
25       load = models.CharField(max_length=1, choices=LEVEL_CHOICES, default=LEVEL_CHOICES[0][1])
26       grade_satisfication = models.CharField(max_length=1, choices=LEVEL_CHOICES, default=LEVEL_CHOICES[0][1])
27       difficulty = models.CharField(max_length=1, choices=LEVEL_CHOICES, default=LEVEL_CHOICES[0][1])
28       subject = models.CharField(max_length=200)
29       is_anonymous = models.BooleanField()
30       professor_firstname = models.CharField(max_length=20)
31       professor_lastname = models.CharField(max_length=20)
32       # optional
33       grade = models.IntegerField()
34       content = models.CharField(max_length=1000)
35
36   class Post(models.Model):
37       user = models.ForeignKey(User, on_delete=models.PROTECT)
38       text = models.CharField(max_length=200)
39       creation_time = models.DateTimeField()
40       course_numbers = models.ManyToManyField(CourseExperience, related_name="related_course_numbers")
41
42   class Comment(models.Model):
43       text = models.CharField(max_length=200)
44       creation_time = models.DateTimeField()
45       creator = models.ForeignKey(User, on_delete=models.PROTECT, related_name='creator')
46       post = models.ForeignKey(Post, on_delete=models.PROTECT, related_name='post')
```

5. A complete set of drawn wireframes or **HTML mockups** for your application, for all non-trivial views within the application.

Main Page

Course Info Page

Web App ——~

80% — Load
90% — Grade
80% — Diffraulty

Course Information
Course # :   Credit :
Syallbus :

Past Score

Fall r1   Summer 22   Spring 22

Subject

Content

Post experience page

New Evaluation

Course Number : [_____🔍]

Semester : [_____ ▽]

Subject : [_____]

Content : [

                                    ]

Load : [1 ▽] (1~5)
Grade : [2 ▽]   Anonymous ☐   [Submit]
Difficulty : [3 ▽]

Optional : Grade : [_____]

Discussion board page

click to learn more + comments

[Post 1]

[Post 2]

[Post 3]

Post

Comments History

Comment Text Box | Send