

# **CIS557 Project**

## **Photo&Video-sharing Social Network APP**

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## **UI & Architecture Design (HW1)**

### **Overview**

The project will consist of the following stages, described in further detail below:

- Team formation: create a team of 3 students
- Sprints: you will meet weekly with your project manager to discuss the implementation of the project and to receive graded feedback
- Presentation: you will present your project in front of two members of the teaching staff at the end of the semester

In completing this project, you will learn to

- Develop software as part of a team using agile methodology
- Design a software system consisting of web components
- Develop a web app using React
- Develop a server-side application using Node Express and MongoDB
- Write documentation for a software system

### **Project Manager Assignment**

Your team will be assigned a Project Manager (PM) shortly after September 6th, at which point you will receive an email regarding the organization of your Kickoff Meeting. Please reply to your PM's email promptly so that they can get the meeting arranged!

During this meeting, your PM will discuss the project timeline, the scope of work, and the various project deliverables and answer any questions you have about the organization of the project. Note that each project milestone (HW) will have a list of features to implement, and deliverables.

## Setup: GitHub Project

**We will use GitHub projects and Extreme Programming (XP)** methodology when implementing this project. As a reminder, XP provides 29 simple rules to be followed in terms of **Planning, Managing, Designing, Coding, and Testing**.

1. You will create and configure a **project in your GitHub repository**. (see useful links below).
2. You should create a **wiki page in your GitHub repository** listing and describing your user stories and story points.
3. Each user story should be listed in the **GitHub's tracker** as an **issue**. You must label your issues and assign them to specific member(s) of your team

## Specifications:

| #  | Features   | Homework |
|----|--|----------|
| 1  | User registration                                |          |
| 2  | Login/Auth                                       |          |
| 3  | User profile page                                |          |
| 4  | Create post / Photo / Video upload               |          |
| 5  | Activity feed                                    |          |
| 6  | Photo/ Videos likes & unliking                   |          |
| 7  | Follow/unfollow users                            |          |
| 8  | Comments   |          |
| 9  | Editing/Deleting Posts (photo/videos) & Comments |          |
| 10 | Follower suggestions                             |          |
| 11 | Tagging photos/videos / @mentions in comments    |          |
| 13 | Live update                                      |          |
| 14 | Privacy / Visibility control on photos/ videos   |          |
| 15 | infinite scroll                                  |          |

## UI Design:

- You will create wireframes for all the pages (cover all the features) of the APP
- You will prototype the following scenarios:
  - Successful registration (include the homepage)
  - Login -> homepage -> Profile page
  - Login -> homepage -> upload a photo or a video
  - Login -> homepage -> find and follow a user -> see their activity/posts on the main activity page

## Rest API Design:

- We will use the MVC (Model-View-Controller) Restful architecture.
- You will use SwaggerHub to create the interactive documentation of your Rest API

## Deliverables & Submission:

- Add the URLs to your wireframes and prototypes and Rest API documentation to your Github wiki
- Your wiki should be well organized (table of contents)
- Submit the URL of your GitHub repository to Gradescope, by **september 28 at 11:59PM**

## Grading:

- You must fill out the individual members' contribution form (posted later)
- The member's contribution is the average of all their teammates' entries
- Contribution of each member defines the penalty for HW grade (for a 3 member group, ideally each member should contribute 33.3% of the deliverables)

| Contribution (%)    | Penalty: % deduction from the group grade |
|---------------------|---|
| <b>29.7+</b> (90+)  | 0   |
| <b>24.75+</b> (75+) | -15                                       |
| <b>16.5+</b> (50+)  | -25                                       |
| <b>8.25+</b> (25+)  | -50                                       |
| <b>&lt;8.25</b>     | -100                                      |

- In case of a contribution dispute, the PM will check the GitHub project for assigned issues, commit ownership, pull requests, code contributions, and slack communications. To avoid any dispute, we recommend that you create a slack channel (or any other group chat) and add your PM to it.

## Project Management

- Sprint grades account for 10% of the homework grade
- You should schedule a **kickoff meeting** with your PM between **09/08 an 09/11**
- You should schedule your sprint meetings during the following dates:
  - Sprint 1: **09/14 - 09/16**
  - Sprint 2: **09/21 - 09/23**
  - Sprint 3: **09/28 - 09/30**
- Before meeting with your PM, you should:
  - Prepare your requirements backlog: identify all the tasks that need to be performed during the sprint
  - Create your milestones and issues in GitHub project: label and assign all issues to members of your team
  - Compute your project velocity
  - Identify any questions that you might have for your PM
- Your PM should fill out the sprint feedback assignment (in Gradescope) during or shortly after the meeting