

Team Project

- Due Dec 2 by 11:59pm
- Points 100

Project Requirements:

Use Case:

Campus Marketplace (Similar to Facebook Marketplace, campus-only)

Goal: Buy and sell textbooks, gadgets, essentials and non-essentials within campus / students-only.

Roles: Seller (create/manage), Buyer (search/chat), Admin (moderation)

Key Functional Features:

- Create and manage listings with photos
- Search and filter by category and price
- In-app chat for negotiation
- Mark items as sold
- Report incomplete listings to admin

This could include a simple chatbot (using Chatgpt API) to find things by simple questions e.g. do you have a used textbook for cmpe202?

then the Agent searches the data and returns search results

The emphasis here is on team collaboration. Every team member is expected to contribute to all aspects of the Project.

Each team is expected to follow Scrum practices with six 2-week sprints starting from the week of September.8th, 2025

- **Components**
 - **APIs** - input and output of API should be in JSON and should include error handling and validation of inputs
 - APIs will be demonstrated using a Web/mobile UI
 - UI is accessed by Seller (create/manage), Buyer (search/chat), Admin (moderation) - (3 roles)
 - APIs should support **Key Functional Features listed earlier.**
- - Deploy API and Database to **AWS or another cloud provider in an Auto Scaled EC2 Cluster** with Load Balancer
 - Develop a Web or mobile UI that will call the deployed APIs
 - Create your own database with mock data

Requirements:

- Each team member must **own at least one of the Software components** in the Team project.
- Keep a **Project Journal on GitHub** to include the following:
 - **Weekly Scrum Report** (i.e. weekly version of daily scrum) which answers the three daily stand-up questions:
 - What tasks did I work on / complete?
 - What am I planning to work on next?
 - What tasks are blocked waiting on another team member?
 - Select two of the following **XP Core Values** and summarize how the team followed these values throughout the project:
 - Communication
 - Simplicity
 - Feedback
 - Courage
 - Respect
 - Maintain Scrum Backlog for each sprint (use a Google sheet or show links or screenshots if you are using a tool for this)
 - Update the **Story** on your Task Board
 - Track your Team's **Burndown Chart** in this Sheet.
- Maintain the project artifacts and code in an assigned **Team GitHub Repo (Use the Git classroom invite to create a private repo - one per team)**
- Create **UI Wireframes**
 - Create UI wireframes for each of the screens in your team's solution
 - (this can be done by hand or electronically with a tool like "Pencil")
- Create Component diagram for overall architecture and Deployment diagram
 - Recommendation: Use UML Deployment/Component Diagram Notation.
 - <http://agilemodeling.com/artifacts/deploymentDiagram.htm>
(<http://agilemodeling.com/artifacts/deploymentDiagram.htm>)
 - <http://agilemodeling.com/artifacts/componentDiagram.htm>
(<http://agilemodeling.com/artifacts/componentDiagram.htm>)
- Maintain a README file in the Team's GitHub Repo.
 - Include all **Diagrams**, **Design decisions** and the overall **Feature Set** of the project
- **Project Demo**
 - Give a demo of your teams working prototype on "Demo Day"

Grading:

- Teams will be be graded with a **Team Score during Demo Day. (Tuesday Dec.2nd at 6PM PST)**
 - **100 points**
- Individual deductions will be made to the Team Score based on contributions to be judged by:
 - **Completeness and Functioning Demo of your Component (as noted on Demo Day)**
 - **Frequency and Quality of commits** to the project Github.

- As such, it is expected that all contributions must be visible via Github. See the following guidelines for how GitHub counts contributions: <https://help.github.com/articles/why-are-my-contributions-not-showing-up-on-my-profile/> [\(https://help.github.com/articles/why-are-my-contributions-not-showing-up-on-my-profile/\)](https://help.github.com/articles/why-are-my-contributions-not-showing-up-on-my-profile/)

- **Rubric:**

- **Implementation of requirements (working software): 70%**
- **Component, Deployment diagrams, Agile Scrum Process (includes Weekly commits and submitting Sprint artifacts, XP values): 30%**
- **Github insights - Each member is expected to checkin code to github; significantly lesser code contributions will result in individual deductions**

No submission required on Canvas. Please include the following information in the Readme section of the repo:

- **Your Team Name**
- **The names of each team member**
- **A summary of areas of contributions (for each team member)**
- **Link to your team's Project Journal (on GitHub)**
- **Link to your team's Google Sheet or Project Board - showing Product Backlog and Sprint Backlog for each Sprint**

For each team, one member should click on this link : <https://classroom.github.com/a/kvgvOCnV>
 **[_ \(https://classroom.github.com/a/kvgvOCnV\)](https://classroom.github.com/a/kvgvOCnV)**

and create a new team; other members should click on the link and join the team that was created. This will ensure a private repo is created and your team will have full access to it