

SEG4105 - Software Project Management

Deliverable #3

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Part I: Feature for Implementation: Student Discount Integration

Project Overview

The team will integrate a student discount feature into the existing Painter's Paradise website. The feature will provide a seamless discount experience for teachers and students at a K-12 school or a university during their purchase. This project is shaped, meaning the team can define their tasks within the boundaries of the pitch.

Kick-Off

We have added the team to a newly created Basecamp project. Within the project, we have posted the shaped concept (i.e. the original pitch) on the Message Board and the link to a kick-off call to set the team in the right direction.

Initial Exploration

The first two weeks of the project are dedicated to understanding the user personas, mapping the user journeys, and defining the preliminary quantitative metrics. Note that the team used our Instagram chat room to communicate. Discussions were focused on the user journey and interactions. [[Link to our initial exploration meeting notes](#)]

Imagined and Discovered Tasks

While we were defining imagined tasks, we created UI elements based on assumptions and initial analysis. While the UX developer created screens, new undiscovered tasks that involved optimizing user flows were brought up. For example, during the initial design phase, we decided

to prioritize visual hierarchy to ensure clarity and ease of navigation for users. This design choice is translated through the decision to put the discount banner at the top of the website.

Implementation Strategy

The team's implementation strategy focuses on both technical functionality and intuitive UX. In this case, we are dividing our UX integration into prototype development and user testing. During the prototype development, the UX developer will develop prototypes to visualize the student discount feature in action, allowing for early feedback on the user interface. User testing will be conducted to validate UX assumptions, ensuring that the feature aligns with user expectations.

Done Means Deployed

Quantitative metrics related to user engagement and satisfaction will be used to validate the success of the implemented feature.

Next Steps

As the team continues the exploration phase, we will focus on UX refinement based on user feedback and discovered tasks. Regular communication channels (i.e. Instagram group chat) and weekly meetings on Microsoft Teams will be maintained to create a collaborative environment for continuous improvement. This will result in a well-shaped and de-risked implementation that is not just functionally robust but also user-friendly.

Part II: 6-week Cycle

Weekly Meeting Minutes: Week 1

Date: Thursday, November 7th, 2023

Attendees: Sophie, Ayman, Sukhraj, Christian

Agenda

1. Review of current project status.
2. Update on completed UX/UI design.
3. Assignment of tasks to team members.
4. Initial discussion on scope map and hill chart.
5. Estimation of project days and assignment of story points.

Meeting Summary

- [[Link to the Figma wireframes](#)] (If the Figma link is not opening, install Figma and look up *SEG4105 - Student Discount Feature* in the Community tab.)
- [[Link to the UX Case Study](#)]
- The UX/UI designer completed the design of the student discount feature.
- Identified tasks for the next phase including backend development, QA testing, and integration with the existing e-commerce platform.
- The completed design will impact the overall scope map and hill chart, requiring adjustments.

- Estimation of project days and assignment of story points to tasks for better tracking and planning.

Assigned Tasks

- Backend development: Developer 1 (Est. 10 days, 15 story points)
- QA testing: QA Engineer (Est. 7 days, 10 story points)
- Integration with e-commerce platform: Developer 2 (Est. 12 days, 18 story points)
- Weekly updates on progress: All team members

Weekly Meeting Minutes: Week 2

Date: Thursday, November 14th, 2023

Attendees: Sophie, Ayman, Sukhraj, Christian

Agenda

1. Progress update on assigned tasks.
2. Discussion on any blockers or challenges faced.
3. Introduction to the hill chart and its importance in de-risking the project.
4. Review of project estimations and adjustments.

Meeting Summary

- Developer 1 and 2 is working on the integration with the e-commerce platform.
- Discussed and refined the scope map based on the completed UX/UI design.

- Introduced the concept of the hill chart and its role in tracking progress and mitigating risks.
- Reviewed project estimations and made adjustments based on the current status and challenges.

Assigned Tasks

- Continue frontend development: Developer 1, Developer 2
- Refine scope map: All team members
- Weekly updates on progress: All team members

Scope Map: Project Integration and Development Phases

Phase 1: Design and Frontend

1. **UX/UI Design:**
 - Completed
2. **Frontend Development:**
 - Estimated Duration: 5 days
 - Story Points: 8

Phase 2: Backend Development

1. **Subtask 1: User Authentication**
 - Estimated Duration: 3 days
 - Story Points: 5
2. **Subtask 2: Discount Calculation Logic**

- Estimated Duration: 5 days
- Story Points: 8

3. **Subtask 3: Database Integration**

- Estimated Duration: 2 days
- Story Points: 3

Phase 3: QA Testing

1. **Subtask 1: Test Cases Creation**

- Estimated Duration: 2 days
- Story Points: 4

2. **Subtask 2: System Testing**

- Estimated Duration: 3 days
- Story Points: 6

3. **Subtask 3: Bug Fixing**

- Estimated Duration: 2 days
- Story Points: 3

Phase 4: Integration with E-commerce Platform

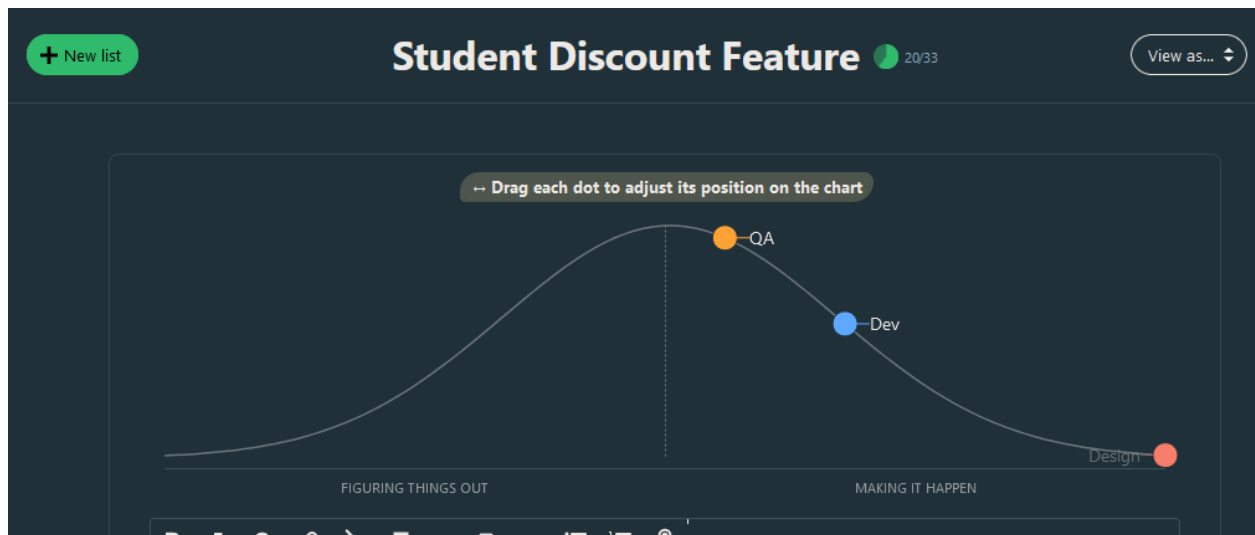
1. **Subtask 1: Compatibility Testing**

- Estimated Duration: 3 days
- Story Points: 5

2. **Subtask 2: Deployment**

- Estimated Duration: 1 day
- Story Points: 2

Hill Chart



This is a snapshot from our project to implement the Student Discount Feature in Painter’s Paradise. Here “Design” is complete, while “Development” and “QA” are still being worked out, with significant unknowns to solve.

Weekly Meeting Minutes: Week 3

Date: Thursday, November 23rd, 2023

Attendees: Sophie, Ayman, Sukhraj, Christian

Agenda

1. Progress update on assigned tasks.
2. Review of refined scope map.
3. Introduction to the hill chart and its importance in de-risking the project.
4. Further adjustments to the scope map and hill chart based on ongoing progress.

5. Review of project estimations and adjustments if needed.

Meeting Summary

- Frontend development and UI design (including wireframes) have been successfully completed.
- Due to resource constraints, the backend development progress is limited, with Developer 1 currently focusing on the assigned tasks.
- QA testing has identified minor issues, and the QA Engineer is actively collaborating with the developers to address them.
- Scope map and hill chart adjustments were discussed based on the evolving project landscape, acknowledging the lack of resources for full implementation.
- Emphasized the importance of ongoing collaboration and communication among team members despite the challenges.
- Reviewed project estimations and made necessary adjustments based on the current status and resource limitations.

Assigned Tasks

1. Continue frontend development and UI refinement: UX Designer and Frontend Developers.
2. Address backend development challenges with available resources: Developer 1.
3. Collaborate on QA testing and issue resolution: QA Engineer and Developers.
4. Continue integration with the e-commerce platform: Developer 2.
5. Review and adjust scope map and hill chart: All team members.
6. Weekly updates on progress: All team members.

Delivery: Weeks 5-6

The development and QA testing phases ended. We can recognize partial implementation due to resource constraints. Despite limitations, the team prioritized thorough research to maintain quality standards, showcasing their commitment to delivering a robust product within the given constraints.

Overall Evaluation

The team demonstrated adaptability in successfully navigating resource constraints, strategically focusing on the development of the UX/UI. The utilization of a scope map and hill chart were important in showcasing their flexibility in the face of evolving requirements and limited resources.

The completed design exceeded current project needs and created a solid foundation for future phases. Throughout the process, the team kept up great collaboration and communication which allowed them to overcome challenges. We used effective project estimations and adjusted accordingly based on resource limitations. This was very important during the project planning and contributed to the project's overall success.