



Study Buddy

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Table of Contents

Overview.....2

Project Charter.....3

 General Project Information.....3

 Project Scope Statement.....4

 Risk.....6

 Communication Strategy.....7

Budget, Scope, and Time Estimates.....8

 Budget Estimate.....8

 Scope & Time Estimate.....10

SWOT Analysis.....11

Team Contract.....13

References.....14

Mission Statement

"At Halftime, our mission is to revolutionize the collaborative learning experience for college students. We are committed to providing a technologically advanced platform that seamlessly connects students based on their courses, schedules, and preferred locations. Through fostering a culture of knowledge-sharing and peer collaboration, we aim to empower students on their academic journey, promoting success, and enriching the overall higher education experience. Our mission is to make collaborative learning accessible, efficient, and enjoyable for students, contributing to their academic achievements and personal growth."

Product Description

The Study Group Matching App is a mobile application designed to help college students easily find and form study groups based on their enrolled courses, schedules, and preferred meeting locations on campus. The app will utilize advanced algorithms to match students with similar academic needs, fostering a collaborative learning environment.

PROJECT CHARTER

1. General Project Information				
Project Name:	StudyBuddy			
Executive Sponsors:	Allyson Watson (Provost)			
Department Sponsor:	Edward Jones			
Impact of project:				
2. Project Team				
	Name	Department	Telephone	E-mail
Project Manager:	Marley Burrows	CST	404-444-4359	marley1.burrows@famu.edu
Team Members:	Regan Wilson	CST	210-749-3435	regan1.wilson@famu.edu
	Chiyle Briggins	CST	786-447-5747	Chiyle1.briggins@famu.edu
	Eric Cheeley	CST	786-484-5596	eric1.cheeley@famu.edu
3. Stakeholders (e.g., those with a significant interest in or who will be significantly affected by this project)				
Students				
CIS Faculty Members				
Administrators				
Technical Support staff				
Provost				
4. Project Scope Statement				
Project Purpose / Business Justification <i>Describe the business need this project addresses</i>				
<p>The study group matching app addresses the pressing business need of facilitating efficient collaboration and knowledge sharing among students in academic settings. With the increasing complexity of academic curricula and the growing emphasis on collaborative learning, students often face challenges in finding compatible study partners. This app aims to streamline this process by providing a user-friendly platform that matches students based on their academic interests, schedules, and learning preferences. By enabling students to easily connect with peers who share similar goals, the app promotes a supportive learning environment and enhances academic outcomes. Ultimately, the study group matching app contributes to student retention and satisfaction by fostering collaborative learning experiences that improve engagement and success in academic pursuits.</p>				
Objectives (in business terms) <i>Describe the measurable outcomes of the project, e.g., reduce cost by xxxx or increase quality to yyyy</i>				

Increase Student Engagement: The primary objective of the project is to increase student engagement by providing a platform that encourages active participation in collaborative learning activities.

Improve Academic Performance: The project aims to improve academic performance by facilitating the formation of study groups, which have been shown to enhance comprehension, retention, and problem-solving skills.

Enhance User Satisfaction: By delivering a user-friendly and intuitive study group matching app, the project seeks to enhance user satisfaction and drive adoption among students.

Deliverables *List the high-level "products" to be created (e.g., improved xxxx process, employee manual on yyyy)*

1. Study Group Matching App
2. User Registration and Profile Creation
3. Matching Algorithm
4. Messaging System
5. Feedback Mechanism
6. Tutor/Instructor Integration
7. Student Rating System

Scope *List what the project will and will not address (e.g., this project addresses units that report into the Office of Executive Vice President. Units that report into the Provosts Office are not included)*

What the project will address:

Study group matching app development planning.
 Planning user registration and profile creation functionalities.
 Planning integration of a matching algorithm to suggest study partners based on user preferences.
 Planning inclusion of a messaging system for communication between matched users.
 Planning implementation of a feedback mechanism to gather user input and improve the app.
 Planning integration of tutors and instructors for academic support within the app.
 Planning implementation of a student rating system to evaluate study partners' performance.

What the project will not address:

Integration with external college systems.
 Features not related to study group matching.
 Additional services beyond project scope.
 Administrative tasks unrelated to app development.
 Customization for specific college departments.
 Ongoing maintenance/support post-deployment.

Project Milestones *Propose start and end dates for Project Phases (e.g., Inception, Planning, Construction, Delivery) and other major milestones*

- Approval of Study Group Matching App Concept
- Approval of Project Scope and Objectives
- Procurement of Necessary Development Tools and Resources
- Completion of App Design Phase
- Production of Promotional Material
- Launch of Beta Version of Study Group Matching App
- Evaluation of Beta Version Performance
- Completion of App Refinement Phase
- Update of Promotional Material
- Official Launch of Study Group Matching App
- Evaluation of App Performance Post-Launch
- Evaluation of Project Performance

Major Known Risks (including significant Assumptions) *Identify obstacles that may cause the project to fail.*

Risk		Risk Rating (Hi, Med, Lo)
Technical challenges in developing a reliable matching algorithm		High
Limited initial user adoption		Medium
Changes in project requirements or scope creep.		Medium
Compatibility issues across different devices and platforms.		Medium
Security and privacy concerns regarding user data		High
Technical complexity exceeding initial estimates		Medium
Constraints List any conditions that may limit the project team's options with respect to resources, personnel, or schedule (e.g., predetermined budget or project end date, limit on number of staff that may be assigned to the project).		
<ul style="list-style-type: none"> • Limited Budget: The project team may face constraints regarding the availability of financial resources for development, marketing, and other project-related activities. • Resource Availability: Availability of skilled personnel, such as developers, designers, and subject matter experts, may be limited, impacting the project's progress and quality. • Project Schedule: The project must adhere to a predefined timeline, which may limit the amount of time available for planning, development, testing, and deployment. • Technology Constraints: The project may be limited by the capabilities of existing technologies or platforms, influencing design decisions and development approaches. • Regulatory Compliance: Compliance with data protection regulations and privacy laws may impose constraints on certain project activities, such as data handling and user authentication. 		
External Dependencies Will project success depend on coordination of efforts between the project team and one or more other individuals or groups? Has everyone involved agreed to this interaction?		
<ul style="list-style-type: none"> • Project success may depend on coordination between the project team and academic institutions or departments to access relevant course information and subject matter experts. • Collaboration with external stakeholders, such as students, faculty members, and administrators, may be necessary to gather requirements, validate designs, and obtain feedback. • Agreement from all involved parties regarding their roles, responsibilities, and level of involvement in the project is essential to ensure effective coordination and collaboration 		

5. Communication Strategy (specify how the project manager will communicate to the Executive Sponsor, Project Team members and Stakeholders, e.g., frequency of status reports, frequency of Project Team meetings, etc.)

Project Website:

A dedicated project website will be created to provide access to project information, documents, reports, and glossaries.

Stakeholders will be able to access all project-related resources conveniently from the website, ensuring transparency and easy communication.

Email Communication:

The project manager will utilize email communication to interact with the project team and stakeholders.

Regular email updates will be sent to provide progress reports, share important documents, and gather feedback from team members and stakeholders.

Communication with Sponsors:

The project manager will maintain communication with department and executive sponsors primarily through email.

Additionally, online meetings will be scheduled with sponsors as needed to discuss project progress, address concerns, and make strategic decisions.

Project Meetings:

Bi-weekly project meetings will be conducted with the core project team and department sponsor.

These meetings will serve as opportunities to review project status, discuss tasks, resolve challenges, and plan future activities.

Quarterly meetings will be organized with the core project team, department and executive sponsors, and stakeholders to provide comprehensive updates, gather feedback, and ensure alignment with project goals.

6. Sign-off

	Name	Signature	Date (MM/DD/YYYY)
Executive Sponsor			
Department Sponsor			
Project Manager	Marley Burrows	<i>Marley Burrows</i>	2/10/2023

7. Notes


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Budget, Scope & Time Estimates

This section is a high-level view of budget, scope, and time estimates. Budget estimates are divided by project phase. Assumptions for these estimates are stated below.

Budget Estimates

WBS Categories	Labor			Non-Labor	Total Cost
	Time (hr)	Cost/hr	Total		
1. Initiating	75	0	0	0	0
2. Analysis	90	0	0	0	0
2.1 Conduct market research	50	0	0	0	0
2.2 Define user stories	25	0	0	0	0
2.3 Analyze competitors	15	0	0	0	0
3. Design	225	0	0	0	0
3.1 Designing website wireframe	75	0	0	0	0
3.2 Design algorithm for matching study groups	100	0	0	0	0
3.3 Create database schema	50	0	0	0	0
4. Development	200	0	0	0	0
4.1 Implement matching algorithm	50	0	0	0	0
4.2 Conduct user testing	150	0	0	0	0
5. Implementation	50	0	0	0	0



5.1 Course Upload	35	0	0	0	0
5.2 Study Group Creation Monitoring	15	0	0	0	0
6. Evaluation	200	0	0	0	0
6.1 Gather user feedback	150	0	0	0	0
6.2 Conduct review with stakeholders	50	0	0	0	0

Scope & Time Estimates

WBS Categories	Internal time (hours) needed to develop one course's study group	Time (hours) needed to develop 5 courses' study groups
1. Initiating	15	75
2. Analysis	18	90
2.1 Conduct market research	10	50
2.2 Define user stories	5	25
2.3 Analyze competitors	3	15
3. Design	45	225
3.1 Designing website wireframe	15	75
3.2 Design algorithm for matching study groups	20	100
3.3 Create database schema	10	50
4. Development	40	200
4.1 Implement matching algorithm	10	50
4.2 Conduct user testing	30	150
5. Implementation	10	50
5.1 Course Upload	7	35
5.2 Study Group Creation Monitoring	3	15
6. Evaluation	40	200
6.1 Gather user feedback	30	150
6.2 Conduct review with stakeholders	10	50
TOTAL	201	1005

SWOT Analysis


Strengths	<ul style="list-style-type: none">1. As students, members of HalfTime are able to utilize our personal study experiences to help foster a better studying environment.2. We can consult FAMU's TutorOcean setup to aid in developing our matching algorithm.3. We can utilize FAMU's course catalog to load open and available classes into the study group application.
Weaknesses	<ul style="list-style-type: none">1. Potential project management inexperience.2. We will likely not be able to fund this project if money is required to be spent.3. Scheduling conflicts can affect meeting regularly and on time.
Opportunities	<ul style="list-style-type: none">1. HalfTime Co. can introduce students to a new way of finding and keeping study groups2. The use of the study group matching application will increase student engagement and raise exam scores3. This project can serve as a model for other universities to implement the same program on their campuses, as well.4. This project serves as a networking opportunity as well. Students could potentially meet mentors who can further

	develop their academic and career goals
Threats	1. The success of the website depends on the willingness of students to actually follow through on study appointments; no-show study sessions are a possibility

Project Team Contract

Team Name: HalfTime Date: February 10, 2024

<p>GOALS: What are our team goals for this project? What do we want to accomplish? What skills do we want to develop or refine?</p>
<p>Our goal is to gain experience in programming with languages we are less familiar with in hopes of learning more to become a well-rounded developer. We want to hopefully create an application that is able to be used by students and possibly earn money from our implementation. We also want to develop our project management skills by ensuring our project has a strong foundation. We want to improve our leadership skills and gain a deeper understanding of agile methods.</p>
<p>EXPECTATIONS: What do we expect of one another in regard to attendance at meetings, participation, frequency of communication, the quality of work, etc.?</p>
<p>We expect to hold each other accountable in terms of attending meetings and maintaining engaged conversations in order to work efficiently. We will discuss a meeting date and time in advance to ensure full participation by all team members. We will look over each others' work to make sure it is of quality and accurately follows all instructions.</p>
<p>POLICIES & PROCEDURES: What rules can we agree on to help us meet our goals and expectations?</p>
<p>Each team member should offer input for every milestone to avoid all work being done by other team members. This will prevent unfair workload division. We will decide on certain available days/times where we can meet up so there are less scheduling conflicts.</p>
<p>CONSEQUENCES: How will we address non-performance in regard to these goals, expectations, policies and procedures?</p>
<p>We will document the offense via email to outline the non-performance. We will create correspondence after each assignment for team member evaluations. If a team member does less than what we agreed would be their share, they will begin the next assignment by completing more work in order to make up for non-performance.</p>



We share these goals and expectations, and agree to these policies, procedures, and consequences.

Regan Wilson

Team member name

Marley Burrows

Team member name

Chiyle Briggins

Team member name

Eric Cheeley

Team member name

References

Weimer, M. (2018, May 16). *The Benefits of Study Groups*. Faculty Focus. Retrieved January 26, 2024, from <https://www.facultyfocus.com/articles/course-design-ideas/what-students-can-learn-from-studying-together/>