3/3/2024

Study Finder

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**Table of Contents**

**Detailed Requirements ......................................................................................................2**

**Use Cases ...........................................................................................................3**

**Meeting Minutes ...........................................................................................................4**

**Budget Estimate................................................................................6**

**API Descriptions……………………………………………………………………………….7**

**Similar Systems……………………………………………………………………………….8**

**References ................................................................................................................16**

**Functional Requirements**

1. **Group Creation and Management**
   1. Students can create study groups, specifying the class, topics, meeting location, time, duration, and student limit.
   2. Enable students to edit or delete study group details.
   3. Permit students to add topics they plan to tackle during the study sessions.
2. **Search and Join**
   1. Provide a search function for students to find study groups based on class, topic, location, or time.
   2. Allow students to join a study group and access its details, including meeting location, time, and notes.
3. **Notes Management**
   1. Enable students to upload, download, and delete notes for their study groups during and after meetings.
4. **User Accounts and Profiles**
   1. Support account creation for students, including profile management and authentication.
5. **Notifications and Communications**
   1. Implement a system to notify students of upcoming study group meetings, changes in details, or new notes uploaded.

**Non-Functional Requirements**

1. **Usability**
   1. Ensure the interface is user-friendly and intuitive for students to navigate, create, search, and join study groups.
2. **Performance**
   1. The system should display search results quickly and handle simultaneous uploads/downloads efficiently.
3. **Security**
   1. Protect student personal information and authentication details. Ensure uploaded notes are only accessible to members of the study group.
4. **Scalability**
   1. Design the system to accommodate an increasing number of users and study groups easily.
5. **Accessibility**
   1. Ensure the application is accessible to all students, including those with disabilities, following Web Content Accessibility Guidelines
6. **Compatibility**
   1. The application should be compatible across different devices and browsers to ensure student accessibility.

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| --- | --- | --- |
| Name: Create Study Group | ID: 1 | Priority: High |
| Actor: Student | Trigger:Student decides to create a study group | |
| Description: Process of a student creating a study group on the Study Group Finder app | Type: External | |
| Major Inputs:  Description Source  Course Name  Meeting Location  Meeting Time  Topics to be covered  Duration | Major Outputs:  Newly created study group other students can see | |
| Normal Course:  Student logs into the Study Group Finder app.  Student selects the option to create a new study group.  Student fills in details such as course name, meeting location, meeting time, student limit, topics to be covered, and duration of study session.  Student submits the information.  App saves the study group details and makes it visible to other students. | Information for Steps:  Course name  Meeting location  Meeting time  Student limit  Topics to be covered  Duration of study session | |

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| Name: Join Study Group | ID: 2 | Priority: High |
| Actor: Student | Trigger: Student decides to join a study group | |
| Description:Process of a student joining study group on the Study Group Finder app | Type: External | |
| Major Inputs:  Selected study group | Major Outputs:  Membership confirmation  Access to meeting details | |
| Normal Course:  1.Student logs into the Study Group Finder app.  Student browses available study groups.  Student selects a suitable group to join.  Student joins the group.  App confirms membership and provides access to meeting details. | Information for Steps:  Selected study group | |

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| Name: Upload meeting notes | ID: 3 | Priority: Med/Low |
| Actor: Student | Trigger: Student attended a study group session | |
| Description: Process of a student uploading meeting notes to a study group on the Study Finder app | Type: External | |
| Major Inputs:  Description Source  Notes from the study group session | Major Outputs:  Description Destination  Uploaded meeting notes accessible to group memebrs | |
| Normal Course:  Student attends a study group session.  Student logs into the Study Group Finder app.  Student navigates to the respective study group.  Student uploads the meeting notes.  App saves the notes and makes them accessible to other members. | Information for Steps:  Notes from the study group session | |

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| --- | --- | --- |
| Name: Generate Reports | ID: 4 | Priority: High |
| Actor: Administrator | Trigger: Administrator decides to generate reports | |
| Description: Proess of generating reports on Study Group Finder app usage | Type: Internal | |
| Major Inputs:  Data on study group creation, attendance, topics covered, and student feedback | Major Outputs:  Compiled reports for analysis | |
| Normal Course:  Administrator accesses the Study Group Finder dashboard.  Administrator selects the option to generate reports.  System compiles data on study group creation, attendance, topics covered, and student feedback.  Administrator reviews the reports for insights. | Information for Steps:  Data on study group creation, attendance, topics covered , and student feedback | |

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| Name: App usage guidance | ID: 5 | Priority:High |
| Actor: New User | Trigger: New user accesses the Study Group Finder app | |
| Description: Process of providing guidance on how to use the Study Group app | Type: External | |
| Major Inputs:  User interface tutorial or user manual | Major Outputs:  Improved user understanding and engagement | |
| Normal Course:  Student attends a study group session.  Student logs into the Study Group Finder app.  Student navigates to the respective study group.  Student uploads the meeting notes.  App saves the notes and makes them accessible to other members. | Information for Steps:  User interface tutorial or user manual | |
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| Team Meeting | Date03/10/2024Time 5 PMLocation Zoom |

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| --- | --- | --- | --- |
| Meeting called by: | Jalen Richburg | Type of meeting: | Virtual |
| Facilitator: | Jalen Richburg | Note taker: | Trinitee Jeffers |
| Timekeeper: | Trinitee Jeffers |  |  |

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| --- | --- |
| Attendees: | Jalen Richburg  Trinitee Jeffers  Deyandra Burke  Jaden Williams |
| Please read: | N/A |
| Please bring: | N/A |

# Minutes

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| --- | --- | --- | --- |
| Agenda item: | Milestone 2 | Presenter: | Jalen Richburg |

#### Discussion:

#### As a group we discussed how we would move through and complete the requirements of milestone 2. We went over the requirements, API descriptions, use cases, gantt chart, and network diagram

#### Conclusions:

All documents have been completed successfully. Jalen completed the Requirements, Jaden completed API description, Gantt Chart, Network Diagrams, and Tasks, Deyandra completed the research similar systems, and Trinitee completed the use cases and use case diagrams.

| Action items | Person responsible | Deadline |
| --- | --- | --- |
| * Project Requirements | Jalen & Deyandra | 3.03.2024 |
| * API Description, Gantt Chart, Network Diagram | Jaden | 3.03.2024 |
| * Research Similar Systems | Deyandra | 3.03.2024 |
| * Use Cases and Use Case Diagram | Trinitee | 3.03.2024 |
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# Other Information

#### Observers:

N/A

#### Resources:

N/A

#### Special notes:

N/A

**API Descriptions**

**Location APIs:**

Google Maps API: Used to display location of study spaces as well as possible venues

**Calendar APIs:**

FAMU Calendar API: Scheduling sessions with calendar integration

**Social Media APIs:**

Slack API: Enable study group communication similar to direct messaging

**College API:**

Course Information API: Provides a way for students to find groups with specific courses

**Authentication API:**

OAuth: Provides secure user authentication and authorization

**Notification API:**

OneSignal: Create push notifications for study groups that are available or cancelled sessions

**Language Translation API:**

Google cloud translation: Allows for accessibility of application

**Learning Management System API:**

Canvas: Collaboration with Canvas software that famu uses

**Video Conferencing APIs:**

Zoom API: Conduct virtual study sessions through the application

Google Docs API:Allow user real time collaboration

**Personalization:**

User Preference API: Allow users to set preferences for study styles

**Similar Systems**

**Course Networking Platforms**:

**Piazza:** Web-based platform to facilitate communication and collaboration among students, instructors, and teaching assistants

Features: Post questions and discussions, Professor communication, course material sharing, poll participation, facilitation of study groups

**Edmodo:** Educational technology platform designed for K-12. Similar social network for classroom environments providing communication and collaboration.

Features: Content Sharing, Communication Tools, Collaboration

**Niche:** Although not a study application, Niche works similarly to connect people on a shared connection. It provides a connection based on interests and hobbies similar to our class connection.

Features: Interest-Based Matching, Community-Driven, Targeted Search, Icebreakers

**University Resources:** Many universities offer student support services like academic advisors or peer tutoring centers. These resources might connect students with classmates or existing study groups based on their needs.

**Tutoring Platforms:** Platforms like Wyzant, Chegg Tutors, and TutorMe connect students with tutors for individual or small group tutoring sessions. While not strictly focused on study groups, they can be used to find classmates who might be interested in forming a study group.

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