



PROJECT PROPOSAL

CSCI 152e – Software Engineering

Project Owner: Maria Guimaraes Diniz Tomaz

Project Owner: Juan Martinez

Scrum Master/ Front-End Developer: Eric Smrkovsky

Front-End Developer: Renato Torres

Back-End Developer: Brandon Huynh

Testing/Quality Assurance: Ricardo Cabrera

California State University, Fresno
Department of Computer Science

Dear Katherine Lathos,

On behalf of Team Six, thank you for taking the time to read and consider our proposal for the Bulldogs Finder Module as an addition to the Fresno State Mobile App that is currently live on the Apple Store and the Google Play Store. We are excited to have the opportunity to assist further the current development teams within the Technology Services Department at California State University, Fresno. As agreed, we are submitting to you information about us and our proposed action for review.

We are currently senior standing student developers at California State University, Fresno, and are (or will be) frequent users of the Modo low-code app-building platform. We have the knowledge and skills to develop an app module that can connect students who need to find suitable housing at Fresno State for their time as a Bulldog. As a team, we are committed to using the Agile Principles for software development to provide scalability, security, and Bulldog Spirit that will align with the universities core mission of empowering students for success.

Keep in mind that the Hub of Digital Transformation and Innovation has always aimed to promote diversity and inclusivity among the population. We recognize that each client is unique, and therefore we realize a different approach to how we can deliver adequately considering the expectations of each one. With the mix of our technical expertise and experience, we provide nothing else but excellence. With this, we can provide a guarantee that all your concerns regarding the Bulldog Finder Module will be addressed properly and in a timely manner.

With these to consider, we hope that you would take time to review this proposal and we hope to hear back from you soon.

Sincerely,
Team Six

Work Background

As a team of six hard working senior students at California State University, Fresno, we are committed to utilizing the skills and knowledge gained during our academic journey to determine the best technology and design approaches to fulfill the needs of the Fresno State Students. Our experience as students, our passion for technology and determination to solve real-world problems has inspired the creation of the Bulldogs Finder module. This module aims to assist Fresno State students in finding their ideal living situation.

Mission and Vision Statement

Our mission is to simplify and ultimately transform how Fresno State Students find and secure a place to live by providing a user-friendly platform for individuals and groups seeking roommates and shared living arrangements. Everyone deserves access to a safe environment, mainly when it comes to where you will be every day.

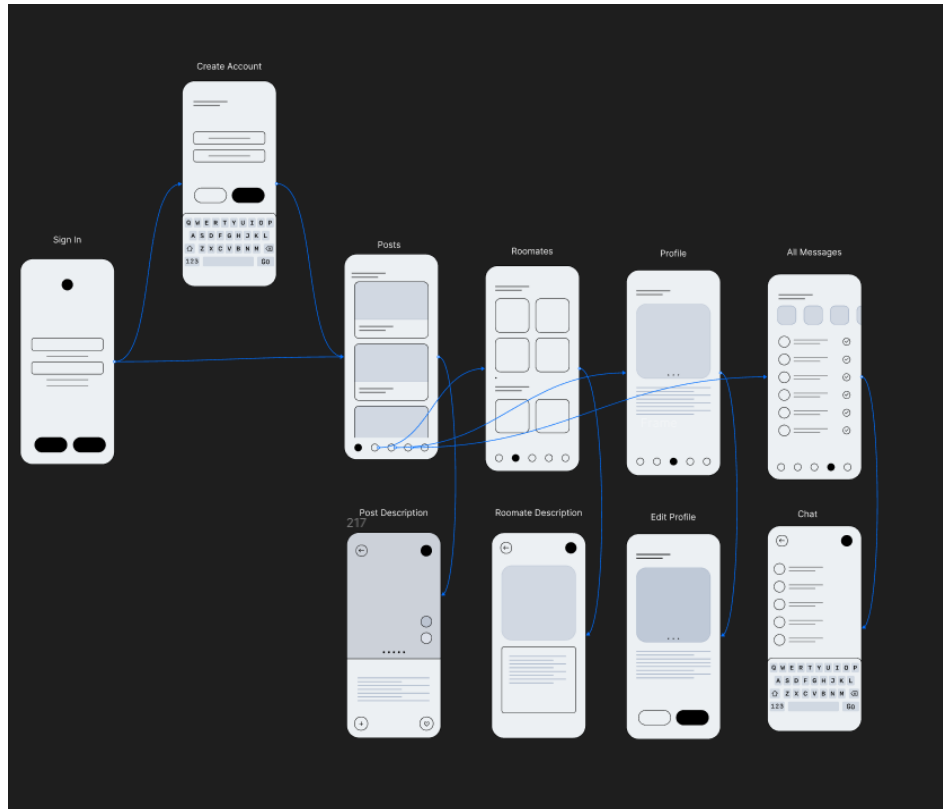
Our Bulldog Finder Module connects individuals with potential roommates and provides the right tools to help find the right match easily, efficiently, and effectively. We want to develop a more inclusive and equitable housing and roommate finder space through transparency and open communication amongst all parties involved. We will strive to follow the mission and vision of the Hub of Digital Transformation and Innovation. Finally, we intend to provide the best service to our clients by realizing their aims and goals using our high-quality, low-code solutions.

Terms and Condition

1. Scope of Work

The development of a roommate and housing finder application that allows users to search for and connect with potential roommates or housing solutions. The application will include the following features and functionalities.

Note: A sample wireframe can be seen below showing some of the proposed functionalities.



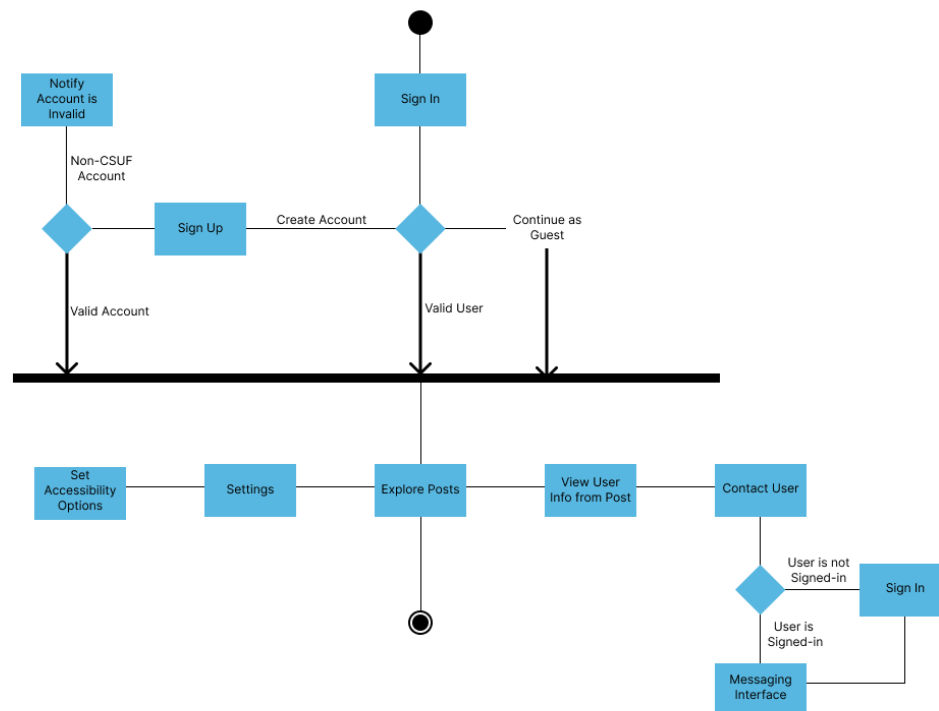
- Student Account Creation:
 - Basic Information (Required: Name, Age, Major, Graduation Year, Gender, Term Availability. Not required: Member of any specific group (International Student, Physical disability, SPED etc.)
 - Personality
 - Interests
 - Short Description
- Student Login System:
 - Sign-In using Fresno State Authentication
- Search and Filter Functionality:
 - Search using keyword filters: (Major, Graduation Year, Gender, Term Availability, etc.)
- In-app Message Service:
 - Contact other students using built-in messaging service
- Listing and Management:
 - Post Housing
 - View Housing
- Accessibility Tools:
 - Font change, speech features, Zoom, Reverse Contrast, Captioning, Language, Keyboard shortcuts, etc.
- Address Calculation in Miles:
 - Display distance of selected housing to campus in miles

- Student Profile System:
 - Profile Description
 - View Profile
 - Post Profile
- Link to Fresno State On-Campus Housing:
 - External Link resource
- Database:
 - Store Student Profile Data/Information

2. Specifications

The developer agrees to provide the following services to the Client with the following specifications:

Note: A sample of a possible user story is shown below followed by a brief structure of the specifications to be described in the System Requirement Specification Document that will be provided in the design phase.



1. Platform: The application will be developed for Fresno State and is compatible with Fresno State Mobile App.
2. Technology: The application will be developed using the Modo Labs platform.
3. User Experience: The application will have a user-friendly interface, making it easy for users to navigate and use all the features.

- 3.1 Accessibility Tools: The application will attend to all students, including those with ability limitations (Visual, Motor, Auditory, Cognitive). It will provide a universal design containing tools such as: Font change, Speech features, Zoom, Reverse Contrast, Captioning, Language, Keyboard shortcuts, etc.
- 3.2 Search Function: The application will include a search function based on keywords that will make it easy and convenient to find roommates or housing.
4. Security: The application will offer security measures in place to protect the user information:
 - 4.1 Authentication/Verification: Ensure student data security by requesting authentication/verification through Fresno State email before being able to connect with other students.
 - 4.2 In-App Message Service: A messaging service included in the application for students to connect with potential roommates without having to share sensitive information such as phone number and email.
 - 4.3 Data Security: Encryption of sensitive information and data backups.
 - 4.4 Limited Guest Access: Guest users will have limited access to the application features and functions.
5. Analytics: The application will include analytics capabilities to track user behavior and engagement, to allow further improvement and interaction.

3. Duties and Responsibilities

- a. The Client hereby agrees to engage the Development and the Developer agrees to be engaged by the Developer to develop the software in accordance with the scope of work mentioned above.
- b. The Developer agrees to complete the work according to the work schedule stated below:

Team building:	1/24/2023
Ideas and strategy:	1/26/2023
Project Proposal:	2/10/2023
Project Proposal + PowerPoint Presentation:	2/09/2023
Sprint 1:	2/14/2023 - 2/28/2023
Sprint 2:	3/11/2023 - 3/25/2023
Sprint 3:	3/25/2023 - 4/11/2023
Sprint 4:	4/18/2023 - 5/02/2023
Project Presentation:	5/04/2023 - 5/09/2023
Final Deliverable (Project Presentation):	5/15/2023

c. The Developer agrees to complete the product on the final delivery date which is TBD (5/15/2023) in accordance with the work schedule.

d. Within the scope of this contract the Developer agrees to respond to any reasonable requests and questions for assistance made by the Client regarding the product within one week of the request. Except for the expressly stated in this Agreement herein, the Developer is not obliged to provide any further support or assistance to the Developer other than this provision herein. Unless this contract is renewed at a later date, the Developer is not obligated to provide the Client with answers to any questions or assists in solving any problems with regard to the operation of the product

e. The Developer agrees to provide weekly reports to the Client (LAB TA) regarding the findings and recommendations on the process of the product.

f. If the product delivered does not comply with the specifications mentioned above, the Client shall notify the Developer in writing within one week of the Delivery Date and state the ways on which it does not conform with the Specifications.

4. Ownership of the Software

a. The Developer agrees that the Product is the sole property of the Client.

b. The Developer hereby assigns the Client, without further compensation, all of its rights, titles and interests in and to the Product and any and all related intellectual property rights in the United States and elsewhere.

c. The Developer hereby agrees to keep and maintain adequate and current written records with respect to the Product (in the form of sketches, notes, drawings and as may otherwise be specified by the Client) which records shall be always available to the Client and shall remain the sole property of the Client at all times.

d. The Developer shall assist the Client in obtaining and enforcing legal protection for the intellectual property rights of the Product in any country. Upon request the Developer shall sign all applications, assignments, instruments and papers and perform all acts necessary or desired by the Client to assign the Product fully and completely to the Client and to enable the Client, its successors and assigns and nominees to secure and enjoy the full and exclusive benefits and advantages thereof.

5. Independent Contractor

a. It is expressly agreed that the Parties shall be independent contractors and that the relationship between the Parties shall not constitute a partnership, joint venture or agency.

b. Neither Party shall have the authority to make any statements, representations or commitments of any kind, or to take any action, which shall be binding on the other Party, without the prior consent of such other Party.

6. Change in the Scope of Work and Specifications

a. The Parties may suggest reasonable changes to be made to the Specifications, to the Scope of Work and the tasks associated with the implementation of the Specifications.

b. If the Client requests such changes, the Developer shall use its reasonable and best efforts to implement the requested changes with no additional cost to the Client and without delaying delivery of the Product.

c. In the event that the Developer requests a change and the change requires a delay in delivery of the Product or would result in additional expense to Client, then the Client and Developer shall confer and the Client shall, in its discretion, elect either to withdraw its proposed change or require the Developer to deliver the Product with the proposed change and subject to the delay and/or additional expense.

d. No changes shall be made unless in writing and agreed upon by both parties.

7. Confidentiality

a. The Developer acknowledges that all material and information supplied by the Client which has or will come into the Developer's possession or knowledge of the Developer in connection with its performance hereunder, is to be considered the Client's confidential and proprietary information (the "Confidential Information"). Any non-disclosure agreements set forth by the client will be followed by the development team.

b. By way of illustration, but not as a limitation, confidential information includes the software, trade secrets, processes, data, knowhow, program codes, documentation, flowcharts, algorithms, marketing plans, forecasts, unpublished financial statements, budgets, licenses, prices, costs, and employee and customer lists.

c. The Developer's undertakings and obligations under this section will not apply, however, to any confidential information which:

(i) is or becomes generally known to the public through no action on the Developer's part,

(ii) is generally disclosed to third parties by the Client without restriction on such third parties, or

(iii) is approved for release by written authorization of the Client.

d. Upon termination of this Agreement or at any other time upon request, the Developer will promptly deliver to the Client all notes, memoranda, notebooks, drawings, records, reports, files, documented source codes and other documents (and all copies or reproductions of such materials) in its possession or under its control, whether prepared by the Developer or others, which contain Confidential Information.

e. Developer acknowledges that Confidential Information is the sole property of the Client. The Developer agrees that disclosure of such information to, or use by, third parties, either during or after this Agreement, will cause the Client irreparable damage.

f. The Developer agrees to use best efforts to hold Confidential Information in the strictest confidence, not to make use of it other than for the performance of its obligations hereunder, to release it only to the Developer's employees or contractors with a need to know such information and not to release or disclose it to any other party.

g. The Developer further agrees not to release such information to any employee or contractor who has not signed a written agreement between the Developer and the employee expressly binding the employee not to use or disclose the Confidential Information, except as expressly permitted herein.

h. The Client shall be listed as a third-party beneficiary of any such agreement. Developer will notify the Client in writing of any circumstances within its knowledge relating to any unauthorized possession, use, or knowledge of such Confidential Information.

i. At any time, upon request, the Developer will return any such information within its possession to the Client.

j. The Developer acknowledges that the Client's purpose in pursuing the development of the Product is to gain a significant competitive advantage over competitors operating without such the Product and that such advantage will be jeopardized if such competitors learn of the Client's negotiations with the Developer or the performance by the Developer of its obligations hereunder.

k. Accordingly, the Developer agrees to keep such negotiations and performance of its obligations hereunder strictly confidential and not to disclose any information to any third party or entity without the prior written permission of the Client.

8. Terms and Termination

a. This Agreement herein shall commence on the effective date of 2/10/2023 and continue until all the obligations set out in this Agreement are fulfilled or until earlier terminated as provided herein.

b. If any of the Parties requests an early termination of this Agreement, the Party requesting an early termination should provide a Termination Form thus providing written notice to other Parties.

c. Confidentiality clause of this Agreement herein shall survive the expiration or termination of this Agreement. In the event of early termination due to the Developer's default or the death or disability of the individual(s) identified above, the Developer agrees to deliver the Product then completed.

d. If the Agreement is terminated due to the death or disability of the Developer, then the Developer (or the Developer's executor, administrator, or other representative) shall deliver that part of the Product then completed, provided payment is made by the Client for such completed part.