



SUPPORT-A-RATTLER

Tech Titans Company

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INTRODUCTION

The vibrant culture of Florida Agricultural and Mechanical University (FAMU) is characterized by outgoing and ambitious students and budding entrepreneurs. Recognizing the dynamic spirit of our community, Tech Titans Company is excited to unveil a groundbreaking project: the "Support-A-Rattler" application.

Support-A-Rattler is not just an app; it's a movement, a platform designed to connect and elevate the entrepreneurial endeavors of FAMU students. Our team has meticulously crafted a plan and prototype to empower student business owners and their clientele. This innovative application redefines how students and entrepreneurs interact, collaborate, and thrive in a digital landscape.

TECHNOLOGY

Hardware:

- Standard iOS devices (iPhone, iPad) for end-users.
- Servers for hosting the application and managing data storage.
- Secure hardware for data encryption and user authentication.

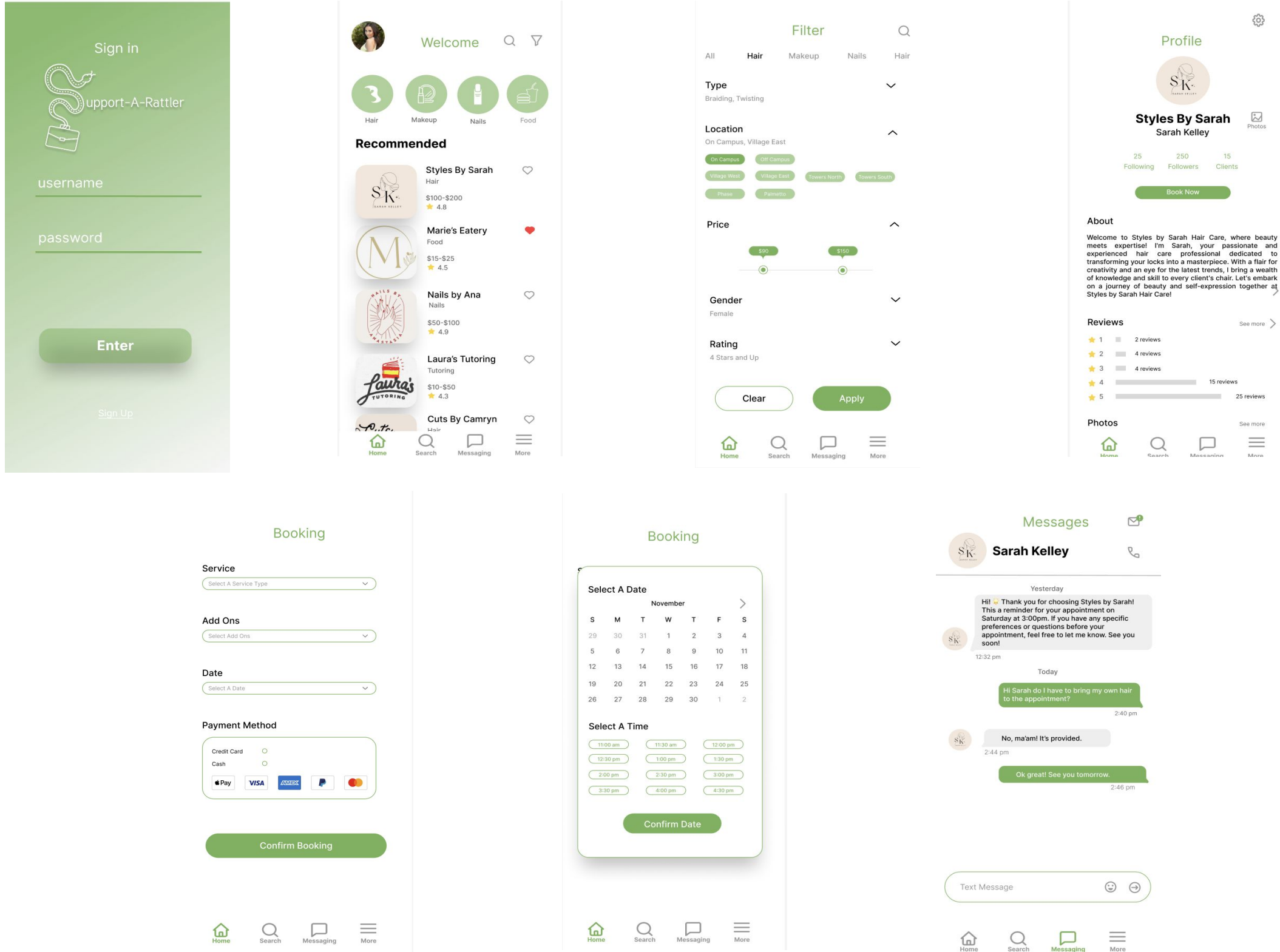
Software:

- iOS development tools (Xcode) for building the Support-A-Rattler app.
- Database management system for storing user profiles, service data, and transaction records.
- Operating systems for server-side infrastructure.
- Security software for data protection.

APIs:

- Google Maps API:
 - Use: Locate services, provide precise distance calculations, navigation directions, and travel time estimation.
 - Integration: Directly within the app for seamless navigation and location services.
- Apple Pay API:
 - Use: Integrate Apple Pay for secure in-app and online transactions.
 - Integration: Directly within the app for payment transactions, record-keeping, and user authentication.
- PayPal REST API:
 - Use: Enable easy payment processing and management of invoices.
 - Integration: Within the app for a comprehensive payment experience, invoicing, and transaction monitoring.

WIREFRAMES



PROCESS

Our design process was broken up into 2-3 week sprints called “Milestones”.

- Milestone 1 : Planning Project Activities
 - In this Milestone, we crafted a Project Charter, conducted a SWOT Analysis, estimated the Budget, Scope, and Time, and developed a team contract. To complete these deliverables, we evaluated our team dynamics (technical skills, personality traits, etc), the time required for us to develop our application, and financial implications of our app.
- Milestone 2: Planning Project Activities Continued
 - This milestone involved creating a Work Breakdown Structure , Gantt Chart, Network Diagram, a Fully Dressed Requirements Document, Use Cases, Use Case Diagram, and API Descriptions.Our execution strategy involved systematically organizing and scheduling through our WBS, Gantt Chart, and Network Diagram and conducting thorough research on similar systems to make informed decisions about our APIs.
- Milestone 3: Designing The Application
 - In this milestone, we designed our Data Flow Diagrams, Marketing Material, Wireframes, and Style Guide. We also crafted a Request For Quote to distribute to potential vendors. In designing our application, we focused on simplistic design strategies and appropriate marketing strategies that are fitting for our target audience, which is HBCU college students.
- Milestone 4
 - In this milestone we completed our database design and reflected on the lessons learned throughout this process. We crafted a Risk Register, Data Dictionary, and Collection Relationship Diagram. To complete these, we assessed our DFD and conducted careful research on similar systems while also considering our scope and target audience.

CONCLUSIONS

Support-A-Rattler has 4 main functions: streamlined communication, booking services, product/service promotion, and peer reviews.

Support-A-Rattler is a user-friendly app connecting student entrepreneurs with clients. It streamlines service booking, from haircuts to tutoring. The platform serves as a marketplace for students to showcase products/services, maximizing their business potential. With a visually appealing interface and a robust review system, Support-A-Rattler fosters trust in the community, aiding consumers in decision-making and providing entrepreneurs with valuable feedback to improve their offerings.

Our app is intended to foster a supportive ecosystem where every student's entrepreneurial journey is celebrated and amplified. By bridging the gap between consumers and creators, we aim to strengthen the entrepreneurial spirit at FAMU and contribute to the flourishing legacy of our university.

As a collective Tech Titans Company has learned how to work as a project managerial and development team. We have refined our project planning, project management, design, and Figma skills to bring our vision to life. We look forward to utilizing our technical skillset to implement our database, security infrastructure and iOS application/user-interface.

REFERENCES

As a company, we conducted research on similar third-party services to develop our plan and strategy. Task Rabbit, Yelp, and Thumbtack are all great examples of Business-2-Consumer applications.

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