

Final Demo Senior Design Team 305

MOUTHPIECE

Social Media Application- Athletic/Sport

Tuesday April 25th, 2023







Our Team



Ian Tyrell Computer Engineer (B.S)

Front-End Engineer



Christian Robinson Computer Engineer (B.S)

Front-End Engineer



Julien Denis Computer Engineer (B.S)

Back-End Engineer



Peyton Smith Computer Engineer (B.S)

Back-End Engineer



Our Advisor



Advisor

- Petru Andrei
 - Electrical and Computer
 - Professor
 - Monthly meetings



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3

Project Refresher



- Mouthpiece is a social media app whose motivation is seamlessly sharing posts, pictures, and videos for a community of those interested in sports.
- This app connects athletes, sports fans, team members, etc.



4



Project Objectives



- Posting (Videos & Pictures both w/ and w/o camera)
- Comments
- Liking
- Searching
- Notifications (Following/Likes/Comments)
- Geolocation (working map, markers, crowd meter)

- Profile Editing (Name/Bio)
- Messaging
- Signing Up (Creating Account)
- Explore Posts (All posts, filtered posts w/ tags)
- Tournament (Seeing tournaments on map/panel & joining)



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Met vs Not-Met Objectives



<u>Met</u>

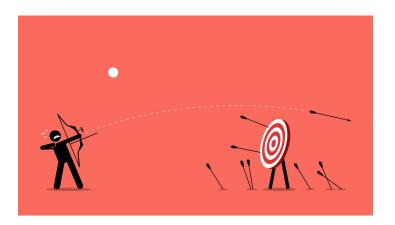
- Posting
- Comments
- Liking
- Searching
- Notifications
- Profile Editing
- Sign Up

Partial

- Geolocation
- Explore Posts

Not-Met

- Messaging
- Tournaments



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Suggestions for future work

Technical Aspects

- Tournament Functionality
- User Capabilities within Geolocation
- Messaging
- Algorithms & Tags for Explore Page
- Fixing miniscule bugs







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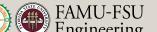
Suggestions for future work

Business Aspects

- Business Model Canvas
 - Schema of how we can effectively plan and pitch to investors.
- Financial Model
 - A financial table highlighting potential inflow and outflow.
- Marketing Plans
 - Find out avenues in which customer discovery and focus groups can be utilized.







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Business Model Canvas

Key Partners

- → Developers and engineers
- → Athletes and sports teams
- → Advertisers

Investors

- → Tournament organizers
- → Payment processors who handle transactions within the app, such as <u>team</u>
 - registration fees.

 Google Pay
 - Apple Pay

 - Social media platforms that may be integrated.

 Sports leagues

 a monetization strategies a monetization strategies

 Staying up to date on trends and changes in the sports industry
 - To ensure the app remains relevant and useful to its target audience.

Key Resources

Key Activities

feedback

→ Marketing and promoting

Analyzing user data and

Improve the app's

experience

Managing payment processing

functionality and user

Team registration fees and

other transactions within the

Providing customer support to

- → The Mouthpiece app
 - Firebase Server
- ◆ Firebase Database
 → A skilled development team
 - Expertise in app design, coding, and testing.
- → Marketing team
- → Customer support team.
- → Data analytics tools
- → Partnerships and collaborators
- Funding and investment to support ongoing development, marketing, and operations.
- → Legal and regulatory compliance

Value Propositions

- → A social media platform dedicated exclusively to the sports community where athletes can showcase their skills and connect with other athletes, teams, and fans.
- Opportunities for athletes to gain exposure and potentially get discovered by college recruiters, coaches, or even professional teams.
- → A community where fans can follow their favorite athletes, teams, and events, and engage with other like-minded sports enthusiasts.

Customer Relationships

- → Exposure/Recruitment
 → User-friendly/Intuitive
- → Targeted advertising/sponsorship
- opportunities
 → Promote
- inclusivity/diversity

 → Allowing for a wide
 range of sports and skill
 levels
- Providing stickers and badges to incentivize posting content
- posting content
 Creating an entertaining and competitive environment.

Channels

- Social Media
- KickStarter
- Sports Clubs
- AAU tournaments
 Schools
- Schools
 Rec Teams
- Rec leams
 Sports Complexes and
 - Parks

Customer Segments

- Underlooked
 - athletes.
 Athletes in underrepresented communities.
 - communities
 Athletes who want to join teams in local areas.
- - want to create/coach teams.

Recruiters Find talented

- people.

 → Casual Viewers
- Casual Viewers
 People who enjoy
 watching sports
 but not
- necessarily play it. Trainers
 - Trainers who want to grow their brand and reach out to other athletes.
- Tournament Organizers

 Allows them to
 - find more teams to pay for tournaments and adds hype around their event.
- → Teams
 - Creates a competitive factor for teams to grow in popularity and rankings to ultimately gain exposure.

Cost Structure

- → iOS Subscription
 - Fixed \$99
 - Firebase Server
 - Deployment and Development: Server subscription \$70-\$340 a month
- → App Development
 - iOS Development
 - Fixed~~~\$82,800
 - Max Cost Estimate: ~\$92,239
- → Marketing
 - costs for promoting the platform and attracting users
 - could range from \$10,000 to \$50,000 or more, depending on the scope and scale of the marketing campaign.

Revenue Streams

- → \$5-\$10 Cost per mille aka CPM
- → Register tournaments via Mouthpiece
- ◆ Global \$1000, State \$500, City \$250, Section \$125, Smaller Custom Price
- → Yearly Team subscription \$7
- → Sponsored content between 20 cents and \$2 per click (CPC)
- → Advertising revenue
- - \$0 to \$50 per transaction, depending on the types of products or services offered and the purchasing habits of the target market.
- → Sponsorship revenue
 - could range from \$0 to \$10,000 or more per sponsorship deal, depending on the size and scope of the sponsorship.







Cost and Revenue Breakdown

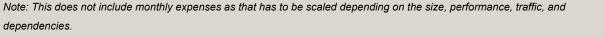
- Assuming our goals of...
 - 500.000 users

dependencies.

- 300 teams registered monthly
- 20 Global, 50 State, 50 City, 30 Sector Tournaments monthly

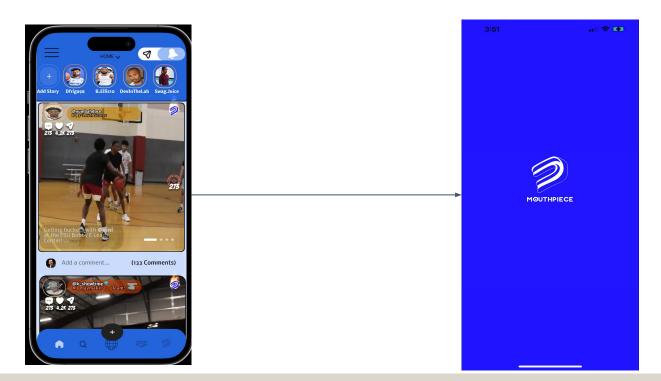


Expenses	Price	Incoming Revenue Sources	Revenue
App Development(Init) - Server included	→ \$92,239	Ad Revenue - \$5 CPM	\$ 75,000 a month
Marketing - Social Media Ads (\$25,000) - Flyers and Billboards(\$15,000) - Influencer Marketing (\$10,000)	→ \$50,000	Team Subscription - \$7 per month	\$ 2,100 a month
		Tournament Registrations - Global \$1000 - State \$500 - City \$250 - Section \$125 - Smaller Custom Price	\$95,000 a month
	\$142,239		\$172,100 monthly





Final Project Demonstration





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Questions?

