## **FAMU/FSU College of Engineering**

# **Department of Electrical and Computer Engineering**

### **Concept Selection**

Team #305

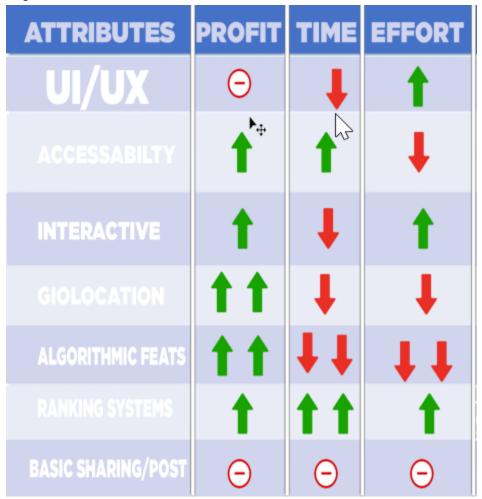
**Mouthpiece Social Media Application** 

Names: Ian Tyrell, Christan Robinson, Peyton Smith, Julien Denis

Date: 10/28/2022

#### Concept Selection:

Pugh:



House Of Quality:

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				Column # Direction of Improvement: Minimize (▼), Maximize (▲), or Target (x)	1 X	₹	X	4 ▼	5	6	7 X	8 X	9	10	11	12	13	14	15
				willimize (▼), waximize (♣), or raiger (x)															
				Quality Characteristics (a.k.a. "Functional															
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2	9	9.3	0.5	Accessability	•	Θ	0	Θ	0	0	Θ	0	0	0	0				
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5	9	16.7	0.9	Algorithmic Feats	0	Θ	0	Θ	0	0	0	Θ	0	0	0				
6	9	13.0	0.7	Ranking Systems	Θ	0	0	<b>A</b>	0	0	0	0	0	0	0				
7	9	9.3	0.5	Basic Sharing/Posts	Θ	0	<b>A</b>	0	<b>A</b>	0	0	•	0	0	0				
8																			
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				Target or Limit Value	33	45	37	43	37	21	33	35	31	33	33				
				Target of Entite Targe	69	4	69	4	(7)	(%	(7)	63	(7)	(7)	67				
				Difficulty (0=Easy to Accomplish, 10=Extremely Difficult)	5	6	7	4	3	3	4	6	3	3	3				
				Max Relationship Value in Column Weight / Importance	9 459.3	9 655.6	9 592.6	9 651.9	9 592.6	300.0	9 466.7	9 544.4	9 463.0	9 500.0	9 500.0				
				Relative Weight	8.0	11.4	10.3	11.4	10.3	5.2	8.2	9.5	8.1	8.7	8.7				

AHP:

Database 9.88 5.66 3.51 9.04 11.57 8.18 Feed 5.07 0.61 0.61 5.28 7.93 2.46 Geolocatic 1.23 1.89 1.46 1.45 1.73 4.10 Profile But 1.52 1.69 0.47 0.58 0.73 0.43 Discover E 2.06 1.48 0.98 1.72 1.19 1.19 My Team 5.40 5.40 2.50 1.10 0.71 9.83 User Title 2.79 2.54 5.48 3.81 ♀ 2.00 6.15 Badge 0.35 0.35 0.74 0.74 0.74 0.86 Share 2.44 2.19 4.74 3.06 1.25 5.29 Comment 0.74 0.74 0.74 0.74 0.74 0.74  Mean priorities by alternative    Mean priorities by alternative   Profile Button	Crit./Alt.	UI/UX	Accessabi Ity	GEOLOCA TION	Algo	Ranking	Basic Sharing post			
Secolocatic   1.23   1.89   1.46   1.45   1.73   4.10	Database	9.88	5.66	3.51	9.04	11.57	8.18			
Profile But 1.52 1.69 0.47 0.58 0.73 0.43  Discover B 2.06 1.48 0.98 1.72 1.19 1.19  My Team 5.40 5.40 2.50 1.10 0.71 9.83  User Title 2.79 2.54 5.48 3.81 \$\frac{1}{2}\$ 2.00 6.15  Badge 0.35 0.35 0.74 0.74 0.74 0.86  Share 2.44 2.19 4.74 3.06 1.25 5.29  Comment 0.74 0.74 0.74 0.74 0.74  Mean priorities by alternative     Mean priorities by alternative   Profile Button	Feed	5.07	0.61	0.61	5.28	7.93	2.46			
Discover B 2.06 1.48 0.98 1.72 1.19 1.19  My Team 5.40 5.40 2.50 1.10 0.71 9.83  User Title 2.79 2.54 5.48 3.81 ♀ 2.00 6.15  Badge 0.35 0.35 0.74 0.74 0.74 0.86  Share 2.44 2.19 4.74 3.06 1.25 5.29  Comment 0.74 0.74 0.74 0.74 0.74   Mean priorities by alternative     Mean priorities by alternative   Profile Button										
My Team 5.40 5.40 2.50 1.10 0.71 9.83  User Title 2.79 2.54 5.48 3.81 ♣ 20 0.0 6.15  Badge 0.35 0.35 0.74 0.74 0.74 0.86  Share 2.44 2.19 4.74 3.06 1.25 5.29  Comment 0.74 0.74 0.74 0.74 0.74  Mean priorities by alternative   Mean priorities by alternative      Database   Feed   Geolocation   Profile Button   Discover Button   Discover Button   Discover Button   User Title   Badge   Badge   Dust on   User Title   Database   Discover Button   Discover Button   User Title   Database   Discover Button   Discover Button   User Title   Database   Discover Button   Discover Button   User Title   Database   Databas										
User Title   2.79   2.54   5.48   3.81   2.00   6.15										
Badge 0.35 0.35 0.74 0.74 0.74 0.86  Share 2.44 2.19 4.74 3.06 1.25 5.29  Comment 0.74 0.74 0.74 0.74 0.74  Mean priorities by alternative    Database   Feed   Geolocation   Profile Button   Discover Button   My Team Button   User Title   Badge   Badge   Badge   Database   Discover Button   Discover										
Share   2.44   2.19   4.74   3.06   1.25   5.29										
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Mean priorities by alternative  Database Feed Geolocation Profile Button Discover Button My Team Button User Title Badge										
Discover Button  My Team Button  User Title  Badge	Comment	0.74	0.74	0.74	0.74	0.74	0.74			
Discover Button  My Team Button  User Title  Badge										
	Relative percentage	d	Ы	سارا	Ш	ال	L I	Feed Geolocation Profile Button Discover Button My Team Button User Title Badge		

#### Conclusive selections:

Developing the social media application "Mouthpiece", will be use different features that would meet designer and customer needs. After analyzing data, feed content, discover section, and user profiles are the most important features to take in consideration. The other notable features that re;ates to those three features includes database, geolocation, and badges. Staying within course of the "top three" will also cover the other features.