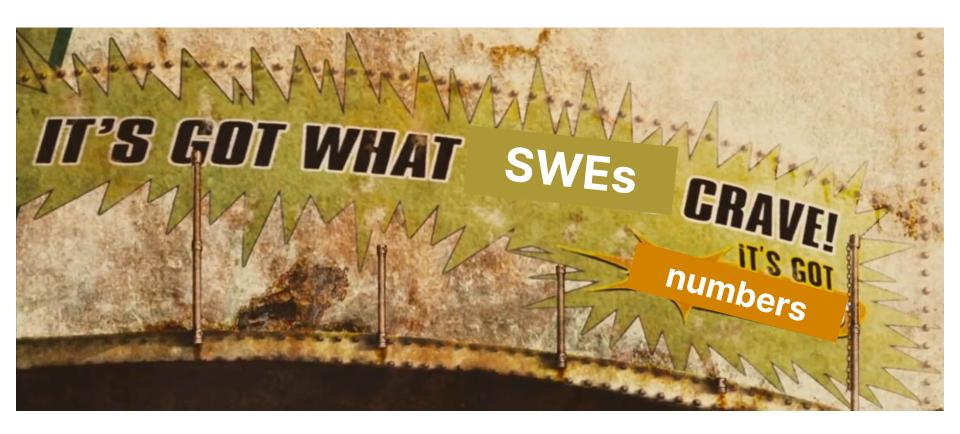


A Weighted Factor Analysis for Project Selection

Powell's Prophets (Team 12)

To quote a movie ahead of its time...



Universal access

Developer preference

Utility

Compatibility

Extensibility

Maintainability

User preference

Scalability

Interoperability

Flexibility

Minimalism

Developer preference

User preference

Developer preference

User preference

Maintainability

Interoperability
Scalability
Flexibility
Universal access
Extensibility
Utility
Utility

400 pts **200 pts** Developer preference User preference **400 pts** Minimalism Maintainability Interoperability Scalability Flexibility Universal access

Utility

Compatibility

Extensibility

1000 pts

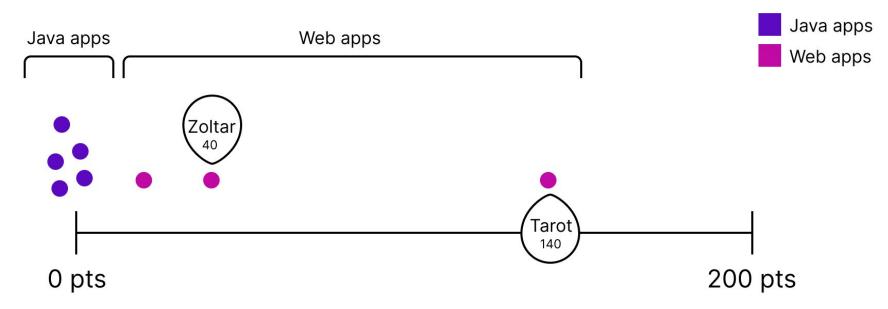
The project with the most points will be selected.

Developer preference

200 points

- → Able to take into account that otherwise-difficult-to describe X factor for each project
- → Small number of points avoids DX dominance

Which project does the team want to work on?



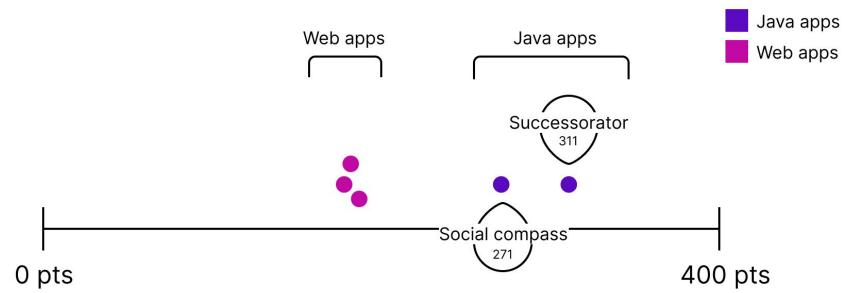
Points allotted to each project for developer preference

User preference

400 points

- → UX >> DX
 - UX = 2 * DX is the heuristic we chose
- → We have weeks to improve the implementation anyways, so we have some wiggle room to pick a project with meh code if the concept is good

What do users think of the high-level concepts?



Points allotted to each project for user preference

-ility analysis

400 points

- → Analysis of the various dimensions of what makes a repository "good"
- → Created a list of 36 boolean and numeric questions to apply to each repository
 - ♠ E.g., are there block-level comments on >70% of functions? Is there unit testing? Is there a change log?

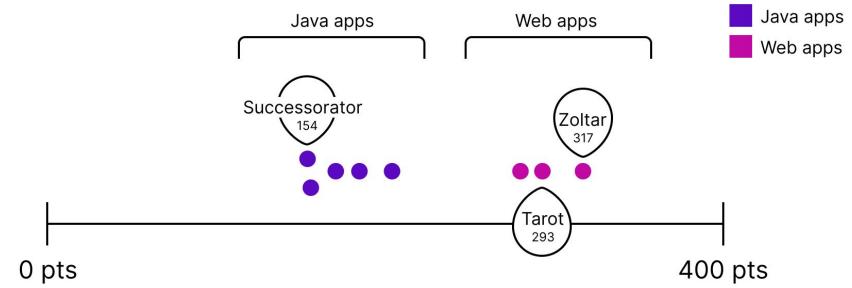
Which features and practices were implemented?

Maintainability Minimalism

Interoperability
Scalability
Flexibility
Universal access
Extensibility
Utility
Utility

	A	В	С	D	E	F	G	н	1	J	к	L	М
1					Kristin	Brandon	Eric/Harshil	Arjun	Luke	Alex	Georolyn	Shijun	
2	Has block commer	nts on >70% of	functions?		no	yes		no	yes	no	no		
3	Total lines of code	?			2831	3585	6022	1940	12432	3617	5767	3558	
4	Average lines per t	file?			128.6	188.68	57.9	92.4	175.1	109.6	65.5	98.8	
5	Is there unit testing	j?			yes	yes	yes	yes	yes	yes	yes	yes	
6	Is there integration	and/or E2E tes	ting(i.e. entire ap	p testing)?	yes	no (incomplete)		no	yes	yes	yes	yes	
7	Is there automated image compression?			no	no	no	no	yes	no	no	no		
8	Is there linting(i.e. to conform to a code style guide)?		yes	yes	no	not applicable	yes	no	no	no			
9	Is there hosted do	cumentation (e.	g. JSDOCS)?		yes	yes	no	no	yes	no	no	no	
10	Is there code minif	ication?			no	no	yes	not applicable	yes	yes	yes	yes	
11	Is there a meaning	ful README?			yes	yes	yes	no	no	no	no	no	
12	Can deployment b	e done automat	ically, or with a si	ngle click?	yes	yes	no	no	yes	no	no	no	
13	Are there ADRs?				yes	yes	no	no	yes	no	no	no	
14	Is there a deploym	ent health bar?			no	yes	no	no	yes	no	no	no	
15	Is there Code Clim	ate, SonarQube	e, or a similar too	set up?	no	no	no	no	yes	no	no	no	
16	Time to first conter	ntful paint (ms)			300	200			166.7				
17	Time to complete load & paint (ms)		300	450			444.89			/5)			
18	Is there Agile sprint documentation?		yes	yes	yes	yes	yes	yes	yes	yes			
19	Are there past mee	eting notes?			yes	yes	yes	no	yes	no	yes (not much)	no	
20	Is there a code sty	le guide?			yes	no	no	no	yes	no	no	no	
21	Is there a design s	tyle guide?			no	no	no	no	yes?	no	no	no	
22	Are there design mockups (e.g. Figma)?		yes	yes	no	no	no	yes	no	no			
23	Are there wirefram	es?			yes	yes	no	yes	no	yes	no	yes	
24	Are there release r	notes, change lo	g, and/or road m	ap?	yes	no	no	no	no	no	no	no	
25	Are all documents	colocated (e.g.	on GitHub)?		yes	yes	no	no	yes	no	no	no	
26	How many commit	s are there?			364	492	91	190	873 (web-flow?)	152	82	274	
27	Is commit rate unif	orm or weighted	d toward certain o	lays	uniform	uniform	weighted	weighted	uniform	weighted	weighted	weighted	
28	Are commit messa	ges meaningful	?		yes	yes	yes	yes	yes	no	yes	yes mostly	
29	Were commits prin	narily one perso	n or equal across	s the team?	inequal	yes	primarily 2	primarily 2	primarily 2	primarily 2	no/primarily 1	primarily 2	
30	Assert statements/exception catches for methods?		no	yes	no	yes	no	yes	no	yes			
31	Dead code?				no	yes?	no	yes	no	yes	yes	yes	
32	Dead files?				no	no	no	no	no	yes	yes	no	
33	Implement design	patterns?			no	yes?	yes	yes	yes	yes	yes	yes	
34	Can you tell where the "front door" is? (e.g. index.html)			yes	yes	yes	yes	yes	yes	yes	yes if you know andriod		
35	Are there nonsensical variable names?			no	no	no	no	no	no	no	no		
36	Is there a license?				yes	no	no	no	no	no	no	no	
37	Are the assets (e.c.	images) a rea	sonable size?		ves	ves	ves	ves	ves	ves	ves	ves	

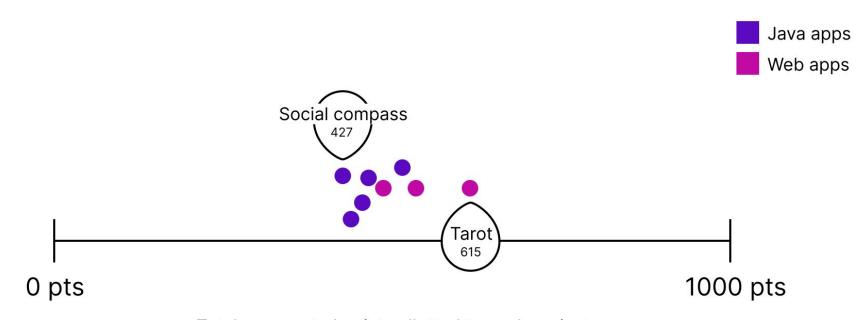
Which features and practices were implemented?



Points allotted to each project for -ilities analysis

Final results

Aggregated results



Total aggregated points allotted to each project

Tarot, but Game

615 points

Zoltar 535 points

Successorator 515 points