

Musical Scales

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Vision Statement

This is where you put the vision for what your program will do. It should summarize key features, explain why this will be useful, and discuss what's planned for immediate release and what's envisioned for future development (stretch goals).

The Musical Scales app will enable users to quickly find the musical scale they desire. In this application, users will input which type of scale they want and then will be able to select the key for the scale. The app will then display the notes that are included in the selected key's scale. Drop-down lists will be used to select both the scale and key. Drop-down lists ensure that no wrong input will occur, such as if the app were using user-text input instead.

Features:

- Scale selection - a drop-down list to select the scale
- Key selection - a drop down list to select the key
- Musical key view - a view that will show the notes that are included in the selected key's scale

This app will be used for both information and education. Users who are making music or learning music theory will benefit from this app.

Future development/stretch goals:

- Modes - including the option to select a mode instead of a scale
- Chords - ability to select a specific chord to see the notes included within that chord

Requirements

A discussion of what your application is required to have in functionality. It should identify user roles and goals/actions, and what the key features of the app should be.

Actor	Goal
User	Be able to easily use and navigate the app
Developer	Design the user interface
	Write the code
	Ensure all features are properly working

Product Backlog

This will be updated throughout the semester as new PBIs are added, larger items are broken into smaller ones, and completed items removed.

Story ID	Story	Story Points (in est. hours)	Priority	Status
1	Research how to design drop-down lists and Implement the first drop-down list	7	Very High	Incomplete
2	Implement the second drop-down list	2	Very High	Incomplete
3	Code the algorithm for creating the musical scales	7	High	Incomplete
4	Improve the UI for the scale and key selection page	4	Medium	Incomplete
5	Improve the UI for the musical scale page	4	Medium	Incomplete

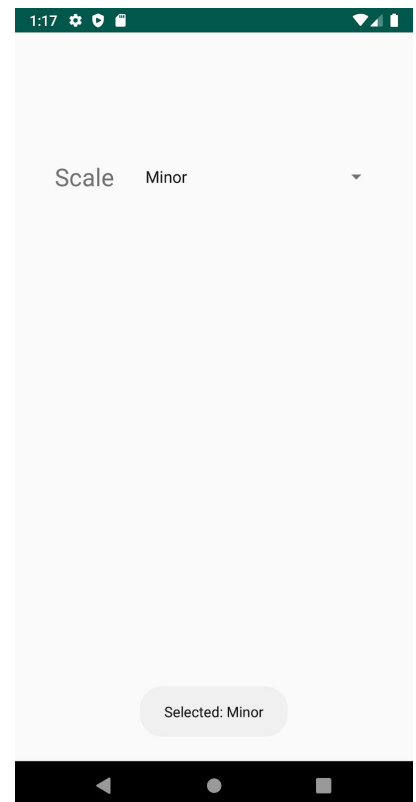
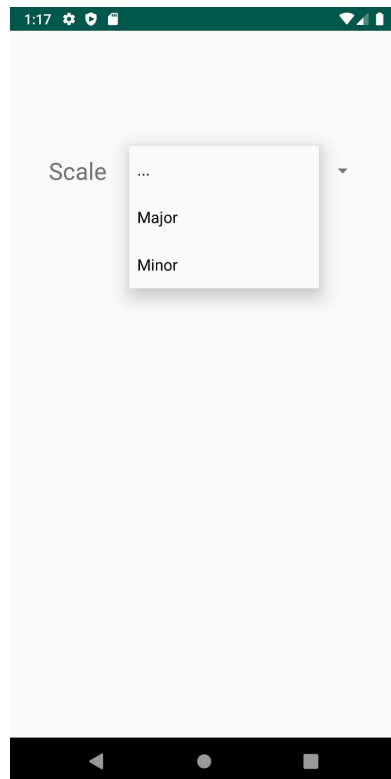
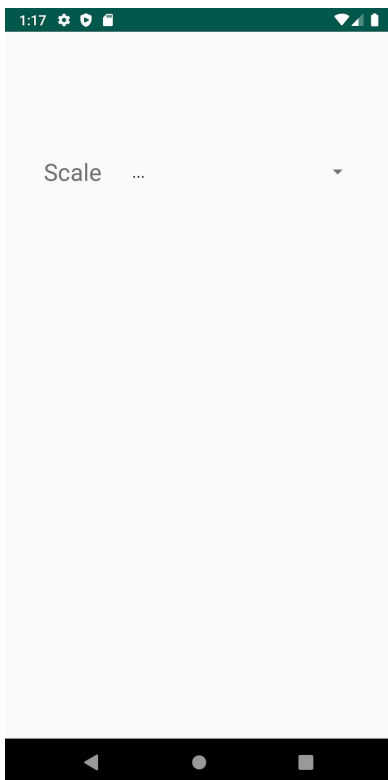
Sprint #1

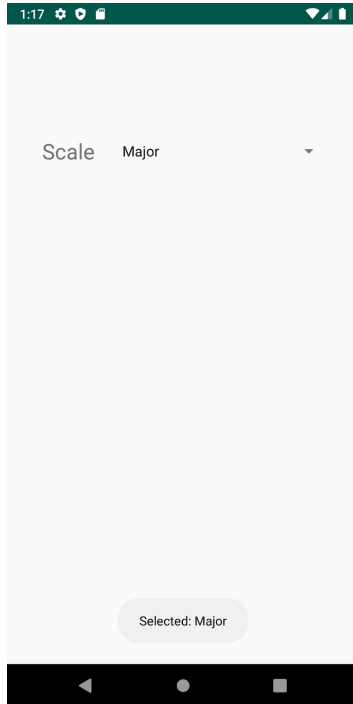
Sprint Backlog

Story ID	Story / Task	Estimated Hours	Actual Hours
1	Research how to design drop-down lists	4	3
1	Code first drop-down list	1	1
	Create tests for drop-down list	1	1
	Design drop-down list	1	1

Review

[Screenshots, etc go here. This is where you discuss the product, describing what was done this sprint (potentially shippable product increment) and what was planned for the sprint but was not done.]





For this sprint, I focused on learning how to use, create, test, and design spinners. I created the first spinner for selecting the musical scale the user wants. The first option is the "...", which is the default option. Upon selection of a different item, there will be a popup on the bottom of the screen detailing which item is selected. Everything that was planned for this sprint was completed. The spinner and its code are documented and tested.

Retrospective

[This is where you discuss the process. What went well (and are you planning to do more of that?) What didn't go so well (and do you have a way to do less of that)? What changes are you planning to make in how you plan & carry out the next sprint?]

Everything in this sprint went very well. The only issues I had were with the testing but once I figured the issues out, the tests started to fully work. I think this sprint was a little less work than what I will undertake for the upcoming sprints. I plan to complete more work in the upcoming sprints. This sprint helped me in learning the Java language as well as understanding the product I have.

Sprint #2

Sprint Backlog

Story ID	Story / Task	Estimated Hours	Actual Hours
2	Implement the second drop-down list	Total: 3	
	create tests for second drop-down list	1	
	design second drop-down list	1	
	code the second drop-down list	1	
3	Code the algorithm for creating the musical scales	Total: 7	
	research method of selecting scales	1	
	create tests for the algorithm	2	
	design the algorithm	1	
	code the algorithm	3	

Review

[Screenshots, etc go here. This is where you discuss the product, describing what was done this sprint (potentially shippable product increment) and what was planned for the sprint but was not done.]

Retrospective

[This is where you discuss the process. What went well (and are you planning to do more of that?) What didn't go so well (and do you have a way to do less of that)? What changes are you planning to make in how you plan & carry out the next sprint?]

Sprint #3

Sprint Backlog

Story ID	Story / Task	Estimated Hours	Actual Hours

Review

[Screenshots, etc go here. This is where you discuss the product, describing what was done this sprint (potentially shippable product increment) and what was planned for the sprint but was not done.]

Retrospective

[This is where you discuss the process. What went well (and are you planning to do more of that?) What didn't go so well (and do you have a way to do less of that)? What changes are you planning to make in how you plan & carry out the next sprint?]

Sprint #4

Sprint Backlog

Story ID	Story / Task	Estimated Hours	Actual Hours

Review

[Screenshots, etc go here. This is where you discuss the product, describing what was done this sprint (potentially shippable product increment) and what was planned for the sprint but was not done.]

Retrospective

[This is where you discuss the process. What went well (and are you planning to do more of that?) What didn't go so well (and do you have a way to do less of that)? What changes are you planning to make in how you plan & carry out the next sprint?]

Sprint #5

Sprint Backlog

Story ID	Story / Task	Estimated Hours	Actual Hours

Review

[Screenshots, etc go here. This is where you discuss the product, describing what was done this sprint (potentially shippable product increment) and what was planned for the sprint but was not done.]

Retrospective

[This is where you discuss the process. What went well (and are you planning to do more of that?) What didn't go so well (and do you have a way to do less of that)? What changes are you planning to make in how you plan & carry out the next sprint?]

Sprint #6

Sprint Backlog

Story ID	Story / Task	Estimated Hours	Actual Hours

Review

[Screenshots, etc go here. This is where you discuss the product, describing what was done this sprint (potentially shippable product increment) and what was planned for the sprint but was not done.]

Retrospective

[This is where you discuss the process. What went well (and are you planning to do more of that?) What didn't go so well (and do you have a way to do less of that)? What changes are you planning to make in how you plan & carry out the next sprint?]