

Team #4

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Milestone 2 - Planning Phase

Risk Analysis

- **Firestore Experience**
 - Description: Few (if any) of us have experience developing with Firestore.
 - Severity: Medium
 - Resolution: The labs will give us a good background in the essentials, and the documentation provided by Google is good enough for us to self-teach. We will have to learn as we go.
 - Status: In Progress
- **Resource Limitations**
 - Description: Firestore's free version comes with limited bandwidth/storage. Too many users or too large files will result in poor performance or limited access for users.
 - Severity: Low
 - Resolution: Test under heavy load to see how system reacts. Do not demo the app under heavy load conditions. Optimize connections/file transfers when possible. Worst-case scenario, pay for better Firestore access.
 - Status: In Progress
- **Meeting Hours**
 - Description: Our schedules leave very little room for us all to meet at once.
 - Severity: Medium
 - Resolution: We must make the most of our in-class standup meetings as well as strictly adhering to our agreed-upon meeting hours during the week. Smaller sub-groups can meet independently throughout the week to work on their tasks.
 - Status: Resolved
- **Time Management**
 - Description: Due to the above risks there is a very real chance that we will not be able to deliver a working Milestone 1 on time.

- Severity: High
- Resolution: Open communication when falling behind. If a group member is struggling with their assigned task, have another member step in to help them out. If all members are falling behind, re-prioritize milestone 1 goals.
- Status: In Progress
- Communication with Customer
 - Description: The customer is hard to reach and does not necessarily work the same hours as we do. If something is going wrong, it may be impossible to get their feedback. There is also a lack of face-to-face meetings.
 - Severity: Low
 - Resolution: Ask questions after class when course staff are physically present. Keep Piazza for low-priority items, and schedule meetings with course staff for extreme priority items.
 - Status: Resolved

Velocity: 0.20

Justification:

- We were often behind where we needed to be on our burndown charts last milestone using a velocity of 0.30.
- As the quarter draws to a close, other classes will assign more difficult and time-consuming work, taking time away from CSE 110.
- The new specifications will require us to learn many more technologies, slowing us down.
- We will need to undertake a large amount of code refactoring before starting new work.

Planning Poker

Story #	Story Name	Hand (in hours)	False Assumptions Uncovered
1	Vibe Mode	5, 24, 8, 8, 24	This story won't include "background" processes like Firebase support, etc.
1	Vibe Mode	24, 24, 12, 24, 48, 24	Google+ integration will be a core part of development for this story
1	Vibe Mode	24, 24, 24, 24, 24	None
2	View all Tracks	3, 1, 2, 8, 3	Unsure of requirements. New code needed or just modification of existing code?
2	View all Tracks	3, 1, 2, 5, 3	None
3	Sorting Tracks	3, 5, 3, 5, 3	None
4	Downloading Tracks	8, 12, 8, 24, 24	Can use built-in functions to download, Firebase design will be part of story #1 anyways
4	Downloading Tracks	8, 12, 12, 12, 12	None

5	UI Extension for Names	5, 2, 3, 5, 2	Will just be an update to existing UI code, unique identifier assignment will be part of another story
5	UI Extension for Names	3, 2, 3, 5, 2	None
6	Unique Identifiers for Users	5, 12, 8, 8, 12	Depends on what pre-existing tools already exist, can take very little time. Worst case can just create sequential IDs and associate with dictionary of animal names/numbers.
6	Unique Identifiers for Users	8, 8, 8, 8, 8	None
7	Google+ Integration	5, 24, 3, 5, 5	We thought location integration would be easy last milestone but it was very difficult. Labs might not teach us everything we need to know for this story.
7	Google+ Integration	8, 8, 5, 5, 8	None



Zenhub

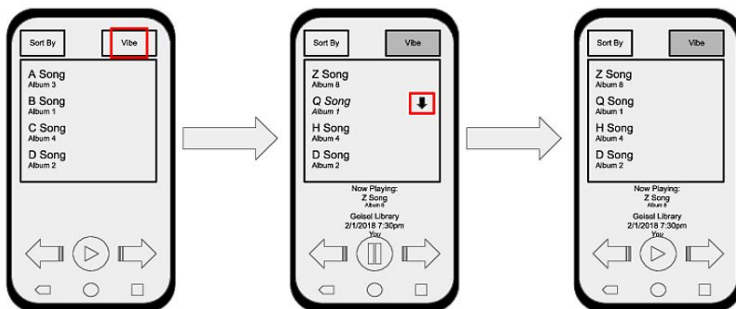
- *Zenhub Board:*

<https://app.zenhub.com/workspace/o/cse-110-winter-2018/cse-110-team-project-team-4/boards?repos=19342267>

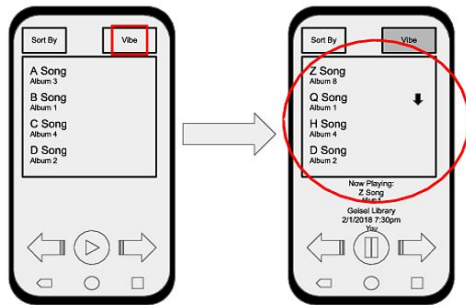
- *Burndown Chart:*
<https://app.zenhub.com/workspace/o/cse-110-winter-2018/cse-110-team-project-team-4/reports?report=burndown&milestoneId=3146358&showPRs=false>
- *User Stories:*
 - <https://app.zenhub.com/workspace/o/cse-110-winter-2018/cse-110-team-project-team-4/issues/53>
 - <https://app.zenhub.com/workspace/o/cse-110-winter-2018/cse-110-team-project-team-4/issues/59>
 - <https://app.zenhub.com/workspace/o/cse-110-winter-2018/cse-110-team-project-team-4/issues/68>
 - <https://app.zenhub.com/workspace/o/cse-110-winter-2018/cse-110-team-project-team-4/issues/69>
 - <https://app.zenhub.com/workspace/o/cse-110-winter-2018/cse-110-team-project-team-4/issues/74>
 - <https://app.zenhub.com/workspace/o/cse-110-winter-2018/cse-110-team-project-team-4/issues/78>
 - <https://app.zenhub.com/workspace/o/cse-110-winter-2018/cse-110-team-project-team-4/issues/82>
- *Scenario-Based System Tests:*
 - <https://app.zenhub.com/workspace/o/cse-110-winter-2018/cse-110-team-project-team-4/issues/86>
 - <https://app.zenhub.com/workspace/o/cse-110-winter-2018/cse-110-team-project-team-4/issues/87>
 - <https://app.zenhub.com/workspace/o/cse-110-winter-2018/cse-110-team-project-team-4/issues/88>

User Interface Progressions/Screens (Wireframes): [higher resolution images are on Zenhub]

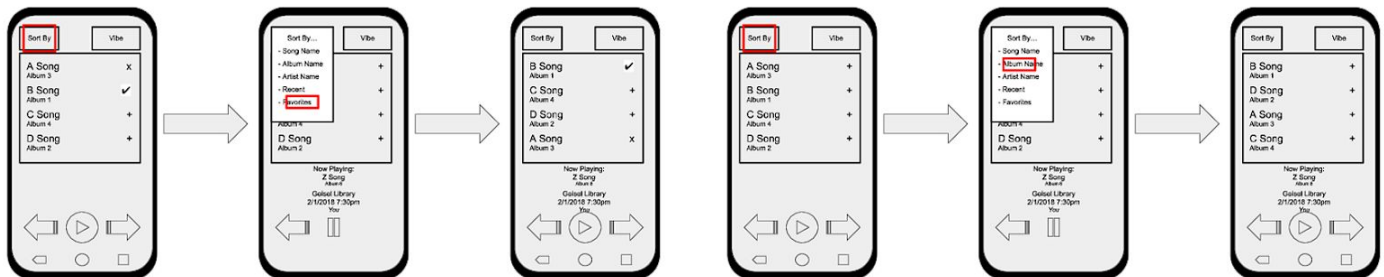
Story #1:



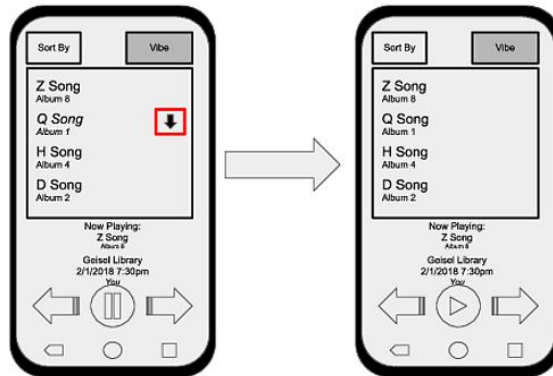
Story #2:



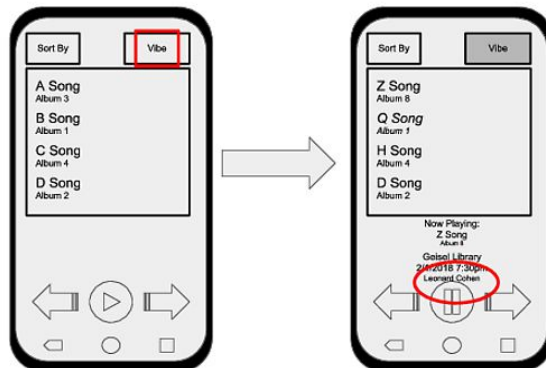
Story #3:



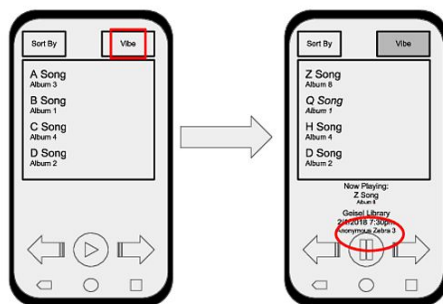
Story #4:



Story #5:



Story #6:



Story #7:

