**Sprint 3 Plan**

Rapid Review

Developed by Jetskiz

Ends on 11/19/24

Revision #0, 11/6/24

Stand Up:

What have you done since the last stand-up?

What are you planning to do until the next stand-up?

Any Blockers (Something that needs to be done before you can keep progressing)

Ex: Database not added to the repo

#### **Goal**

* Incorporate LLM tie in, clean code to match our coding standards, frontend testing (infrastructure)

#### **Tasks**

1. MH1. As a student, I want the wrong options in the multiple-choice questions to be relevant to the question, so I study better. (The LLM tie-in) [21]
   1. Write backend code to talk to LLM - 30 min
   2. Write backend code to parse LLM into database - 4 hours
   3. Update database to hold LLM output - 2 hours
   4. Write backend unit tests - 1 hour
   5. Write prompt to give to the LLM - 1 hour
   6. Modify frontend to show the LLM generated wrong answers - 1 hour
   7. **Acceptance Criteria:**
      1. Some of the wrong answer options for each question I see are related to the question
      2. The wrong answer options for each question I see are actually wrong, for the most part
2. SH1. As a student, I want the wording of the correct answer in multiple-choice questions to vary, so I avoid memorizing the answer and focus on understanding it. (LLM tie in) [8]
   1. Write backend code to talk to LLM - 30 min
   2. Write backend code to parse LLM into database - 4 hours
   3. Update database to hold LLM output - 2 hours
   4. Write backend unit tests - 1 hour
   5. Write prompt to give to the LLM - 1 hour
   6. Modify frontend to show the LLM generated right answer - 1 hour
   7. **Acceptance Criteria:**
      1. The correct answer option I see for each question is different whenever I generate a new quiz occasionally
      2. The correct answer option is still correct, for the most part
3. SH3. As a student, I want to practice answering free response questions created from my flashcards, so that I can study actively. (No LLM tie in) [5]
   1. Modifying CreateQuizPage to have free response questions (UI-wise) - 1 hour
   2. Creating a customization UI (MC, Free Response, or mix of both) - 1 hour
   3. Add frontend functionality to the customization UI - 1 hour
      1. checkboxes for multiple choice
   4. Basic correct answer checking - 1 hour
   5. Write unit tests for all functionality - 2 hour
   6. **Acceptance Criteria:**
      1. When I generate a quiz, I can choose whether to include multiple choice or free response questions, or some mix
      2. I can freely respond to free response questions
      3. When I submit the quiz, I will know whether my answer to the free response questions are right or wrong
      4. When I submit the quiz, I want to see the right answer to free response questions

From Sprint 2:

1. BUG: When a 4th term is added, quiz me is active
   1. make quiz me call update() before it runs
   2. change how quiz me works
   3. or how the cards update in a set (before you press update set button)

If Time:

1. CH1. As a student, I want to mark specific cards in my set, so I know to focus my study effort on these cards. [3]
2. SH2. As a student, I want to be able to search for specific flashcards within a set, so I can quickly update or find the information I need. [3]

**Other Notes**

Spikes:

* 1. Learning OpenAI API
  2. Exploring and finalizing LLM choice
  3. Researching ideal LLM prompts

Infrastructure Tasks

* 1. Integrate code coverage into frontend
  2. Write unit tests for frontend
  3. Refactor to have cleaner code in frontend & backend
  4. Fix lint/pretty errors in frontend
  5. Make frontend UI better 💀

Outside events:

* 1. Midterm 2 (Wed, Nov 13) - Jiemas/Serene
  2. Veteran’s Day Weekend
  3. Test 2 (for this class, Mon, Nov 18)
  4. dec 6 jiemas won’t be there for presentation, either present earlier or later

#### **Team Roles**

* Serene Cheng: Developer
* Tiffany Guan: Scrum Master, Developer
* Jiemas Rubio: Product Owner, Developer
* Zachary Venzor: Developer
* Jianwen Wu: Developer

#### **Initial task assignment**

* Serene Cheng:
  + make frontend tests for frontend tasks (all besides login)
* Tiffany Guan:
  + backend tasks in mh1/sh1
* Jiemas Rubio:
  + Refactor to have cleaner code in frontend & backend
* Zachary Venzor:
  + start on the multiple choice, SH1
* Jianwen Wu:
  + Code coverage frontend - Jest
  + Lint frontend

#### **Initial Burnup Chart: Tiffany will do this**

#### **Initial Scrum Board: Jira**

#### **Scrum Times**

* Sun/Wed/Fri @ 9:45 pm
* Thurs TA meeting @ 4pm

#### **Check-ins (have done, will do, blockers)**

Thursday 11/7/2024

* Jiemas
  + have worked on infrastructure tasks, refactoring front end and back end
  + will be focusing on removing duplicate code, refactoring
  + no blockers
* Jianwen
  + reviewed pull request today for refactored code from last sprint
  + will be working on code coverage for front end testing and lint testing (infrastructure tasks)
  + no blockers
* Serene
  + worked on frontend functionality unit tests for the homepage
  + finish unit tests and work on the create set page
  + no blockers
* Zach
  + started working on multiple choice test page
  + continue working on that for quiz
  + no blockers
* Tiffany
  + Set up sprint 3 jira board
  + assign myself a backend task mh1/sh1
  + no blockers

Friday 11/8/2024

* Jiemas
  + refactoring backend, pushed llm files
  + continue refactoring backend, if finished will move on to llm stuff
  + no blockers
* Jianwen
  + linted the frontend to align with the prettier styling, did frontend code coverage, made pull request
  + will pick up a task, fix a bug if applicable
  + no blockers
* Serene
  + started create set unit tests
  + continue working on set unit tests
  + need jiemas’ help
* Zach
  + started working on the free response question page
  + continue working on FRQ page
  + no blockers
* Tiffany
  + started mh1 t2
  + continue working on mh1 t2
  + no blockers (might need jiemas’ help too)

Sunday 11/10/2024

* Jiemas
  + finished refactoring for backend (not the tests)
  + will work on mh1 t1, figure out how to set up the queue
  + no blockers
* Jianwen
  + worked on researching LLM prompt stuff
  + pick up a diff task not LLM related
  + no blockers
* Serene
  + worked on unit tests for create set, picked up a bug3 (if u log into another account it stays with the same sets from previous account)
  + continue fixing the bug, or pick up another task
  + no blockers
* Zach
  + not much
  + finish the free responses questions for the quiz task
  + no blockers
* Tiffany
  + still working on mh1-t2, mh1-t3
  + continue working on mh1 t2
  + Maybe blocked by mh1 task 1, and llm prompt(might need jiemas’ help too)

**Wednesday 11/13/2024**

* Jiemas
  + Infrastructure backend fully done, MH1 T1 in review, should be done by next standup
  + will merge MH1 T1 to dev, then work on frontend to add llm stuff there, MH1 T6
  + no blockers
* Jianwen
  + review with jiemas (MH1 T1), making prompts for LLM, testing stuff on MH1 T2 branch to see if prompt can be parsed properly
  + will try to make prompt better, help with backend task
  + no blockers
* Serene
  + looked through bug3 and unit testing for the pages
  + continue working on create set page
  + no blockers
* Zach
  + got the FRQ UI done and basic answer checking for it
  + will be working on the modal to switch between frq and mcq and mix
  + no blockers
* Tiffany
  + MH1 T2-3 and SH1 T2-3 progress (parsing works, but grabbing and adding to db needs to be in the right places)
  + finish it by next standup
  + no blockers

**Thursday 11/14/2024**

* Jiemas
  + mh1 and sh1 are in review, updating it, tested on deployment
    - also worked on frontend tasks sh1 t6 and mh1 t6
  + finish all tasks in review / blocked
  + sh1 t6 and mh1 t6 are blocked by llm code/prompt
* Jianwen
  + started reviewing the pull request jiemas made for mh1 t1
    - started on frontend infrastructure UI task (to make UI look better)
  + kev will merge mh1 and sh1, will continue working on ui task
  + no blockers
* Serene
  + reviewing create set unit tests, not much progress
  + continue working that until next meeting
  + no blockers
* Zach
  + working on modal pop to choose if you want to do frq or mcq quiz
  + continue working on that
  + no blockers
* Tiffany
  + mh1 t2, t3, and sh1 t2, t3 in review
  + fix any errors that occur and complete them
  + waiting for mh1 to be merged to dev, llm issues zzz

**Friday 11/15/2024**

* Jiemas
  + mh1 task 1 got merged to dev,
    - mh1 task 1 and 4, and sh1 task 1 and 4
    - minimum functionality is kinda there
    - got stalled bc overloaded api key
  + finish working on getting minimum functionality
  + blocked by api key
* Jianwen
  + reviewed jiemas’ merge req, fixed the prompt for llm (better than before but still has some problems with duplicating)
    - not much on UI
  + will fix the prompt to be more consistent and fully functional, will be working on the UI
  + no blockers
* Serene
  + not much progress
  + will keep working on the unit tests for frontend
  + no blockers
* Zach
  + got the UI modal working, but broke when tried to connect
  + will try to get it to connect and generate test
  + no blockers
* Tiffany
  + working on frontend ui to indicate which answer options are from the LLM
  + continue working on that
  + no blockers

**Sunday 11/17/2024**

* Jiemas
  + Finished MH1 and SH1
  + Will review kev’s UI and updated prompt, and zach’s tasks and merge to dev when done
  + whenever zach is done, then ready to merge to dev, by tuesday
* Jianwen
  + did UI change 1, 2, and 3, also fixed backend up for import test so that it cleans up in the db, updated the prompt after feedback from jiemas
  + will be working on UI change 4 (quiz page)
  + no blockers
* Serene
  + haven’t pushed yet but worked on create set unit tests
  + will push tmr, will get to import modal unit tests
  + no blockers
* Zach
  + still working on getting the page to render correctly, still crashes after modal loads
  + will finish and fix tmr
  + no blockers
* Tiffany
  + nothing
  + dunno what to do
  + no blockers
* Monday night: sprint retrospective
* Wednesday night: sprint planning

**TA Notes**

* **11/7/2024**
  + Spruce up UI
* 11/14/2024
  + Staging, benefits of having a staging process to move more tasks to done
    - staging, developing, environments etc