Quiztopia

Team 06:

Rusho Bin Nabi, Matthew Niemczyk, Danny Peck, Danica Porter, & Menachem Rubin



User Personas

Student - Rusho

Teacher - Mendel

Independent Learner - Danica

IT - Matthew

Student User Stories

As a student, I want to be able to see what cards the teacher created for me, so I know what to study for.

As a student, I want to be able to view my classes so that I can see what classes I'm in.

As a student, I want to be able to see class sets so that I can see what the teacher wants me to practice and work on.

As a student, I want to be able to see how much I have practiced so that I can effectively study.

Teacher User Stories

As a teacher I would like to create new accounts for students so that when a student does not have an account yet, I can create an account for them so they can see the required material.

As a teacher I would like to list all classes so that I can delete, modify, add, and more generally manage all my classes.

As a teacher, I want to add students to classes so they can view required content.

As a teacher I would like to remove students so that if I incorrectly add a student to the wrong class, I can remove them.

As a teacher I would like to set a date by which all students in a class must view a set of flashcards in any form (quiz ...) so that students can review material before a test(?)

As a teacher, I would like to add sets of flashcards to a class, so that students can view the required content.

As a teacher, I would like to list the students to view the students' progress in a class.

Independent Learner User Stories

- As an independent learner, I would like to create a new topic by entering a series of words and definitions and saving it as the name of the topic
- As an independent learner, I would like to search for publicly available sets on a given topic
- As an independent learner, I would like to use flashcards to improve memorization
- As an independent learner, I would like to practice matching definitions to words
- As an independent learner, I would like to be able to track my progress on a given topic
- As an independent learner, I would like to be given feedback on the material that needs the most improvement

IT User Stories











User feedback sources

A help section

Access to server logs

Notify users of shutdown and changes to the website

Temporary server shutdowns

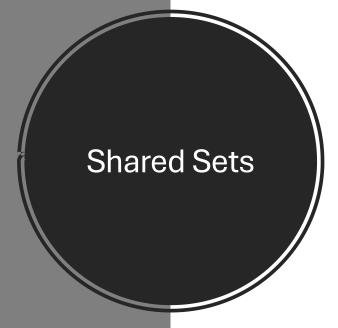
Critical Requirements

Easy Maintanance - Matthew Flashcard File System - Mendel Memory exercises - Danica Share sets – Danny:) User authentication - Rusho

Flashcard File System	ID:	FlashCardFS
	Title:	A system for managing sets of flashcards
	Description:	This will allow user and especially teacher to group possibly common flashcards into folders.
	Primary Actor:	General Users
	Preconditions:	Successful login
	Postconditions:	File System for flashcards is modified.
	Main Success Scenario:	 User creates new folder, or selects an already created one. They create a new flashcard set for the folder. Or they select one of their other flashcard sets to be added. The flashcard set is added to the folder.
	Extensions:	 This can be extended to create a class or folder of flashcards shared by teacher to students. User provides invalid input (bad folder name, or no flashcard set selected to add to folder) Instruct user to provide proper name or select a proper set of flashcards.
	Frequency of Use:	Depends on the user: Teachers will use it very frequently, but other users will use it much more infrequently.
	Status:	Developing plan for code structure
	Owner:	Mendel Rubin
	Priority:	High

Memory Exercises	

ID:	MemTesting		
Title:	Engage in memory testing exercises		
Description:	This describes the process of handling the user interactions as they participate in various memory exercises.		
Primary Actor:	Independent Learner		
Preconditions:	- Successful login - Topic created / Information entered		
Postconditions:	- The user's progress is updated - Improvement suggestions are created / updated		
Success	 User chooses which method they want to use to test their memory System generates a new version of the chosen exercise System keeps track of correctness as user completes the activity User is given feedback based on their performance System stores the user's progress for the given topic 		
Extensions:	 System doesn't recognize input Instruct user to change their input User attempts to generate exercise using an empty set Warn user that their current topic is an empty set 		
Frequency of Use:	Very often, almost every time website is used		
Status:	Developing plan for code structure		
Owner:	Danica Porter		
Priority:	High		



ID:	SharedSets		
Title:	Sharing and Sending Sets between Users		
Description:	This will allow the different users to share the sets that they have created between one another.		
Primary Actor:	General users		
Preconditions:	- Successful login - Pre-created CardDeck(s) on one user's profile.		
Postconditions:	 Dual access to CardDeck(s). Owner controls visibility and editing settings. 		
Main Success Scenario:	3. They choose how they want to share the deck (shared memory, txt file, or		
Extensions:	Allow original Owner to control visibility and editors. Allow non-owners to create a copy of the Deck.		
Frequency of Use:	Moderately frequent, approximately once every few user sessions.		
Status:	Developing plan for code structure		
Owner:	Danny Peck		
Priority:	High		

Easy Back- end work	ID:	Easy Back-end up work
	Title:	A system for shutting down and working on backend
	Description:	This will allow user to have easy access to the backend without interfering with users
	Primary Actor:	IT Users
	Preconditions:	Successful server shutdown
	Postconditions:	Backend code is modified
	Main Success Scenario:	 User successfully shuts down server User modifies backend code Server is restarted at appointed time told to users
	Extensions:	Be able to inform users about the time that the server will be shutdown and restarted
	Frequency of Use:	Hopefully infrequently, but could have more use on initial launch
	Status:	Developing plan for code structure
	Owner:	Matthew Niemczyk
	Priority:	High

User Authenticati on

User Authentication Use Case:

ID:	userAuthenticationUseCase		
Title:	User Authentication		
Description:	The user authentication use case will have stuff that the user authentication user persona and their user story will want to have.		
Primary Actor:	The user.		
Preconditions:	Standby and waiting for the user to input their login information.		
Postconditions:	Waiting until the user finishes using the system?		
Main Success Scenario:	If the login information for the user was correct, log them in, and if incorrect, show an error.		
Extensions:	The teacher may also want to be able to login or sign up to use the system and so, they might need to be authenticated as a user.		
Frequency of Use:	As often as the user wants to login and use the system.		
Status:	In Development.		
Owner:	Rusho Binnabi		
Priority:	Critical.		

Non-Functional Requirements

Efficiency:

- High space efficiency to account for limited DB size.
- Medium time efficiency because operations are free on MongoDB.
- For the prototype, want to handle 250 users at a time.

Portability:

- Delivered as a web service. Want compatibility for Chrome, Firefox, and Safari.
 - Support for mobile users will come later.

Privacy/security:

- Minimize user data storage
- Properly salt and hash passwords.