

# 20 Questions

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# Methodology

## Agile

- Tracks progress for each individual component of the project

Functional Requirements

ID	Description	Agile Sizing	Priority
FR-01	High Score board of how many questions the computer has asked so that the user can see how fast the computer has guessed previously.	2	Low
FR-02	Tree database to store all available answers	13	high
FR-03	Traversal function so that we can navigate the tree to a guessed item.	5	high
FR-04	A counter to keep track of how many questions have been asked. The counter would be displayed as well as kept to know when 20 questions have been asked.	2	medium

Non-Functional Requirements

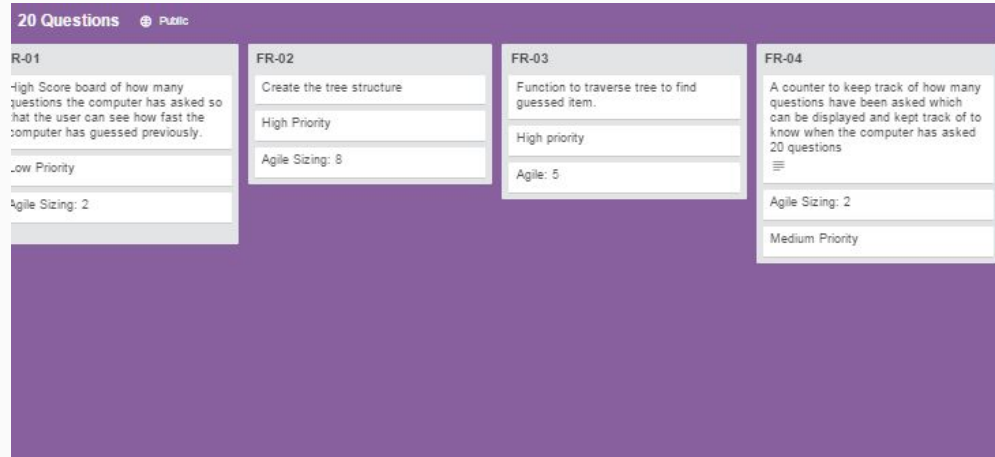
ID	Description	Agile Sizing	Priority
NF-01	Optimize and or balance data tree so that the traversal is as efficient as possible.	3	low
NF-02	Have the ability to safely add a new item to the tree so that we can add a large number of guessable items.	8	medium
NF-03	Create a list of a large number of guess		

# Project Tracking Software

## Trello



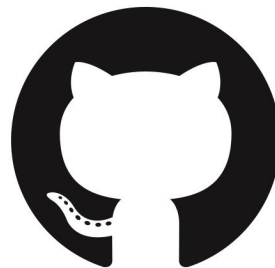
- Stores user Agile stories














# Version Control Software

## Github

- Primary source control for program code



Commits on Dec 2, 2015		
 Delete 20Questions <a href="#">[diff]</a>	seanhansberry committed an hour ago	<a href="#">5b0b4c9</a> <a href="#">↔</a>
 Updated Makefile to work for test and clean	seanhansberry committed an hour ago	<a href="#">1501304</a> <a href="#">↔</a>
 Delete main.o <a href="#">[diff]</a>	seanhansberry committed an hour ago	<a href="#">08d3fcf</a> <a href="#">↔</a>
 Fixed Makefile to work for test	seanhansberry committed an hour ago	<a href="#">0709f07</a> <a href="#">↔</a>
 Fixed Makefile to work for test	seanhansberry committed an hour ago	<a href="#">898e13d</a> <a href="#">↔</a>
 Added comments to functions and methods	schubdydoo committed 4 hours ago	<a href="#">510278d</a> <a href="#">↔</a>
Commits on Nov 19, 2015		
 main now skips ineffective questions so that we can narrow further (w...	Katanaco committed 13 days ago	<a href="#">e705444</a> <a href="#">↔</a>
 converted to use linked list for scalability and question narrowing a...	Katanaco committed 13 days ago	<a href="#">0f6fc07</a> <a href="#">↔</a>
Commits on Nov 18, 2015		
 calculates animals as it goes so that we can utilize this to specify ...	Katanaco committed 14 days ago	<a href="#">2346260</a> <a href="#">↔</a>
 employed Animals class so read in can be done once per instance	Katanaco committed 14 days ago	<a href="#">92083f1</a> <a href="#">↔</a>
 fixed main stoi bug and now compiles for c++11	Katanaco committed 14 days ago	<a href="#">6406172</a> <a href="#">↔</a>

# Challenges

- Dividing the workload
  - Assigned each developer Agile user stories
- Ensuring proper source control
  - Used github to manage changes to code
- Maintaining communication
  - Every other week meetings

# Demo