

**Title:** 2048 - Tris

**Who:** Kevin Barone, Shreyaan Arora, Ryan Bishop, Rob Carter

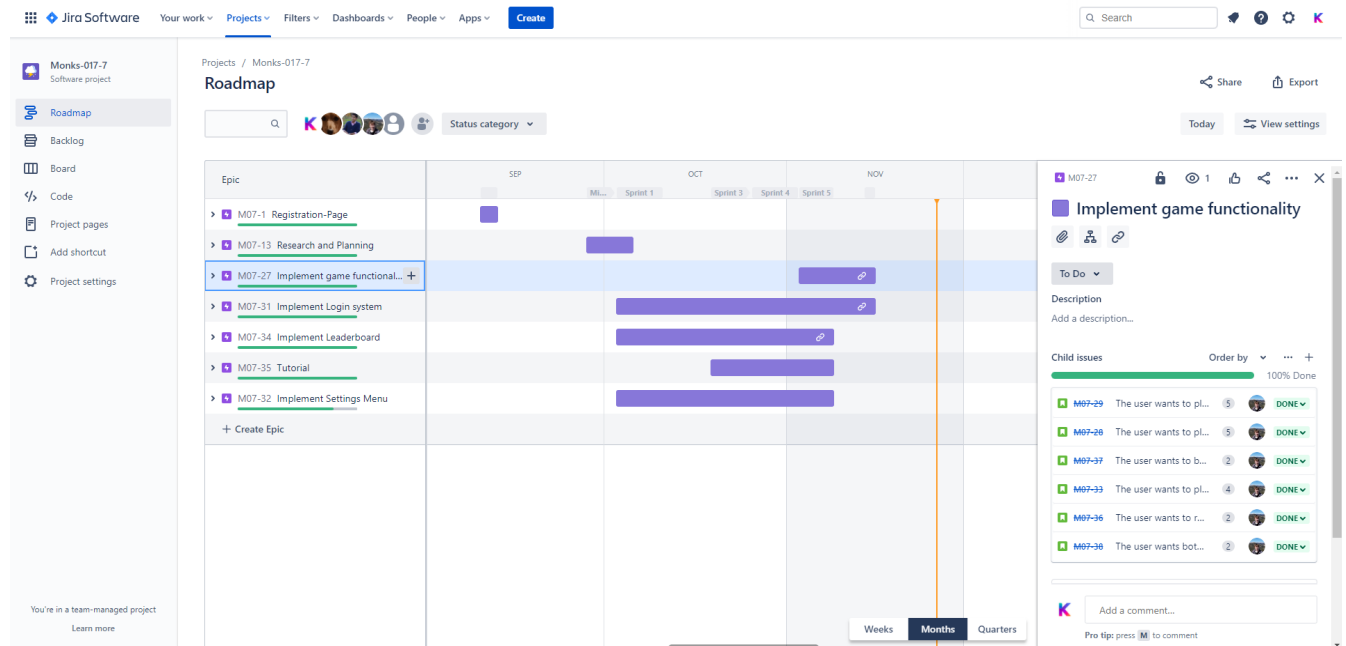
**Description:**

2048 - Tris is a fun and difficult new puzzle game that incorporates the well known puzzle games, Tetris and 2048, into a new game for players looking for a new challenge. Players are tasked with playing both Tetris and 2048 at the same time with only 4 key inputs, W, A, S, D. When the player moves his/her Tetris block to the right, then the tiles of 2048 also shift to the right. This is the same for left, down, and rotating of tetris clocks. Players have to focus on both games simultaneously to ensure that they do not lose in either of them, as this results in both games ending. Users can also create an account and login to ensure that their scores are saved and updated to the leaderboard where they can see how they compare to other players. This project includes various other website pages such as an About page, a tutorial, various other information pages, and even a settings page when users can update their password, username, or email.

**Project Tracker:**

<https://csci-3308-fall21-017-7.atlassian.net/jira/software/projects/M07/boards/1/roadmap>

*Screenshot below:*



## Video:

<https://www.youtube.com/watch?v=PZVp0aE8zXw>

## Version Control:

<https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-017-07>

## Individual Contributions

- Kevin - Kevin completed most of the HTML and CSS work for the various web pages. He utilized Bootstrap for general CSS implementations, but then created the style of the website using a newly created stylesheet. This included layout of each page, colors and design of each page, and navbar functionality when a user logs in and out of their account. He also worked with JavaScript to get the leaderboard working/updating properly when a user is logged in and new scores are created.
- Ryan - Ryan completed both the Tetris and 2048 game implementations. He utilized JavaScript to implement both games and allowed the user to play them simultaneously on the homepage of the website. He worked with Rob then to

store the scores of the games into our database when a user was logged in. Ryan also worked on many aspects of the various milestones for the project.

- Rob - Rob primarily worked on the database and back-end side of things. He used Firebase to store user login information and scores of their various attempts at the games. He also assisted with getting the leaderboard working and worked on incorporating the database with all aspects of the website, such as the login and sign up modals. He also created the settings page and all its functionality using JavaScript.
- Shreyaan - Shreyaan completed the Architecture Design for the project and worked on getting the sign-up and login modals working on each page of the website. He used JavaScript and HTML to create the modals and got the password checks to update when a user creates a new account.

**Commit Screenshots:**







Ryan = Possibly-Batman

Rob = rob-carter



















Shreyaan = shreyaan01





































Kevin = keba2993

Commits on Nov 28, 2021







small changes rob-carter committed 1 hour ago	 87dd373	
password check actually requires 8 char to validate I guess rob-carter committed 2 hours ago	 46c7b79	
footer fixed-bottom rob-carter committed 3 hours ago	 abfcea2	

Commits on Nov 15, 2021

































adding ms6 keba2993 committed 13 days ago	Verified  8039a79	
getting settings modals to work and updated tutorial keba2993 committed 13 days ago	 14695c5	
FINAL PUSH Possibly-Batman committed 14 days ago	 8d65514	
almost done Possibly-Batman committed 14 days ago	 21e4db3	
suppressed error on homepage and some on settings rob-carter committed 14 days ago	 bcd7d6b	
signup now applies username rob-carter committed 14 days ago	 0a2a5c5	
settings NOW works rob-carter committed 14 days ago	 a0bef16	
Login fix - leaderboard shreyaan01 committed 14 days ago	 3a52eba	
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> keba2993 committed 14 days ago	 c9cb755	

navbar updates on all pages K keba2993 committed 14 days ago	 398c811 
settings page should fully work rob-carter committed 14 days ago	 8b6e07b 
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> rob-carter committed 14 days ago	 2350403 
GAME WORKS Possibly-Batman committed 14 days ago	 57258a8 
Functioning modal on all pages shreyaan01 committed 14 days ago	 634cd64 
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> rob-carter committed 14 days ago	 2c27138 
working on settings rob-carter committed 14 days ago	 29e022d 
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> K keba2993 committed 14 days ago	 ee19063 
username shows up in navbar K keba2993 committed 14 days ago	 cc13638 
help rob-carter committed 14 days ago	 66cbc4a 
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> K keba2993 committed 14 days ago	 8329e3a 
small change rob-carter committed 14 days ago	 1eefbad 
added getName to database rob-carter committed 14 days ago	 428c401 
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> K keba2993 committed 14 days ago	 acb183c 
navbar.js added to each page K keba2993 committed 14 days ago	 88aa949 
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> rob-carter committed 14 days ago	 e07292f 
settings almost work rob-carter committed 14 days ago	 b47a188 
navbar changes K keba2993 committed 14 days ago	 dcac118 










Commits on Nov 14, 2021

navbar.js rob-carter committed 14 days ago	 d1db71e 
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> K keba2993 committed 14 days ago	 369e612 
coloring of modal changed K keba2993 committed 14 days ago	 71face5 
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> rob-carter committed 14 days ago	 8ec0734 
Login JS intergrations, and updated developers page shreyaan01 committed 14 days ago	 3e7d187 





Commits on Nov 14, 2021

Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> ... rob-carter committed 14 days ago	 3fc43b1	
fixed keba2993 committed 14 days ago	 260ece3	
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> ... rob-carter committed 14 days ago	 a0d5b83	
setting html stuff rob-carter committed 14 days ago	 d276b61	
navbar elements change on modal clicks keba2993 committed 14 days ago	 a0630b1	
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> ... keba2993 committed 14 days ago	 bc2ee69	
messing with modal keba2993 committed 14 days ago	 2664866	
developers page 4 realises Possibly-Batman committed 14 days ago	 a0acb7e	
developers page Possibly-Batman committed 14 days ago	 06b7b8d	
puuushh Possibly-Batman committed 14 days ago	 b066f5d	
worked more on 2048 Possibly-Batman committed 14 days ago	 e128e9f	
worked more on 2048 Possibly-Batman committed 14 days ago	 68e0cb5	
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> ... rob-carter committed 14 days ago	 e8c6586	
dev html stuff rob-carter committed 14 days ago	 29c0100	
Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> ... Possibly-Batman committed 15 days ago	 82ee703	
Solid work done on 2048 Possibly-Batman committed 15 days ago	 6db15d4	





Commits on Nov 12, 2021

Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> ...	 98df316	
 keba2993 committed 16 days ago		
minor changes	 e9fdb88	
 keba2993 committed 16 days ago		
added info in dev html page and there are some other files added that...	 ee19ff4	
 rob-carter committed 16 days ago		

Commits on Nov 10, 2021
























Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI...">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a> ...	 8e9fb8a	
 rob-carter committed 18 days ago		
user can now change password and email	 c28eae4	
 rob-carter committed 18 days ago		

Commits on Nov 8, 2021

adding ms5	Verified	 8999de7	
 keba2993 committed 20 days ago			
Add files via upload	Verified	 746fcfb	
 rob-carter committed 20 days ago			



Commits on Nov 7, 2021

preliminary 2048	 d5471df	
 Possibly-Batman committed 21 days ago		







Commits on Nov 6, 2021	<div> <div>tutorial almost done, made resources page, finished about page</div> <div>  keba2993 committed 22 days ago </div> <div>  85e67ad &lt;&gt; </div> </div>
Commits on Nov 5, 2021	<div> <div>meeting log</div> <div>  Possibly-Batman committed 23 days ago </div> <div>  cd56c18 &lt;&gt; </div> </div>
Commits on Nov 4, 2021	<div> <div>tetris works</div> <div>  Possibly-Batman committed 25 days ago </div> <div>  0d84836 &lt;&gt; </div> </div>
Commits on Nov 3, 2021	<div> <div>removed line that would mess things up if left in</div> <div>  rob-carter committed 25 days ago </div> <div>  02a9644 &lt;&gt; </div> </div> <div> <div>removed name from personal leaderboard as it is not needed at fixing ...</div> <div>  rob-carter committed 25 days ago </div> <div>  ec5e9ae &lt;&gt; </div> </div>
Commits on Nov 2, 2021	<div> <div>Merge branch 'main' of <a href="https://github.com/CU-CSCI-3308-Fall-2021/CSCI3308-Fall-2021">https://github.com/CU-CSCI-3308-Fall-2021/CSCI...</a></div> <div>  keba2993 committed 26 days ago </div> <div>  d668b1a &lt;&gt; </div> </div> <div> <div>leaderboard works when user is logged in</div> <div>  keba2993 committed 26 days ago </div> <div>  0092f8e &lt;&gt; </div> </div> <div> <div>meeting logs for this week</div> <div>  rob-carter committed 26 days ago </div> <div>  46673ff &lt;&gt; </div> </div>
Commits on Nov 1, 2021	<div> <div>leaderboard function works... just need to push it to html</div> <div>  rob-carter committed 27 days ago </div> <div>  0932013 &lt;&gt; </div> </div> <div> <div>personal scores are now sorted by highest and only displays top 3</div> <div>  rob-carter committed 27 days ago </div> <div>  50d91d3 &lt;&gt; </div> </div>
Commits on Oct 29, 2021	<div> <div>Add files via upload</div> <div>  rob-carter committed on Oct 29 </div> <div>   a92fc71 &lt;&gt; </div> </div>



Commits on Oct 29, 2021

Add files via upload ... rob-carter committed on Oct 29	Verified		9e2796e	<>
meeting log Possibly-Batman committed on Oct 29			0827ef5	<>


Commits on Oct 26, 2021

append made to leaderboard top3 keba2993 committed on Oct 26		c2cf9fb	<>
Merge branch 'main' of https://github.com/CU-CSCI-3308-Fall-2021/CSCI... keba2993 committed on Oct 26		a9c9428	<>
updated some tutorial stuff keba2993 committed on Oct 26		8177e0f	<>
small changes to database.js rob-carter committed on Oct 26		654cfaf	<>
can write scores and almost display top personal scores rob-carter committed on Oct 26		689941d	<>
can write scores and personal top scores almost works rob-carter committed on Oct 26		6a5dffb	<>









Commits on Oct 25, 2021

minor tweaks Possibly-Batman committed on Oct 25		625c6fa	<>
more work on tutorial page keba2993 committed on Oct 25		093b3ff	<>

Commits on Oct 22, 2021

created tutorial, developers, and about pages keba2993 committed on Oct 22	 44f01e9	
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Commits on Oct 19, 2021

basically nothing Possibly-Batman committed on Oct 19	 872a4bd	
working tetris Possibly-Batman committed on Oct 19	 a4e41ff	
Merge branch 'main' of https://github.com/CU-CSCI-3308-Fall-2021/CSCI... Possibly-Batman committed on Oct 19	 e5d9258	
added Tetris Possibly-Batman committed on Oct 19	 69cea41	

Commits on Oct 16, 2021

css is good keba2993 committed on Oct 16	 2b599b4	
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Commits on Oct 15, 2021

milestone 3 pdf Possibly-Batman committed on Oct 15	 bf1ac48	
10-15 meeting log Possibly-Batman committed on Oct 15	 f115824	
undoing changes Possibly-Batman committed on Oct 15	 316e473	
tried to get signup popup to work with firebase before meeting, failed Possibly-Batman committed on Oct 15	 cc5d321	
datamodeling with yaml stuff rob-carter committed on Oct 15	 983a2fe	
forgot to remove something rob-carter committed on Oct 15	 2d5f68c	
login and signup on homepage work rob-carter committed on Oct 15	 7e6b122	
login and signup on homepage work rob-carter committed on Oct 15	 64ecf6a	

Commits on Oct 14, 2021

made things look more cohesive and nicer  
keba2993 committed on Oct 14

0bbc6a9 <>

Commits on Oct 12, 2021

removed name requirements for sign up from home page  
rob-carter committed on Oct 12

7d277c6 <>

moved files  
rob-carter committed on Oct 12

5df38a3 <>

Framework for homepage finished, need to connect login to database still  
Possibly-Batman committed on Oct 12

13e34cd <>

Commits on Oct 10, 2021

created login.js which allows for logging in and creating an account ...  
rob-carter committed on Oct 10

c711827 <>

Commits on Oct 9, 2021

Merge branch 'main' of <https://github.com/CU-CSCI-3308-Fall-2021/CSCI...> ...  
keba2993 committed on Oct 9

43a20d7 <>

created js and css files for leaderboard/pages and first draft of lea...  
keba2993 committed on Oct 9

9905fad <>

Commits on Oct 8, 2021

more meeting notes  
Possibly-Batman committed on Oct 8

8478ace <>

Commits on Oct 5, 2021

basic structure of files  
Possibly-Batman committed on Oct 5

1143fd3 <>

Commits on Oct 1, 2021

meeting log 10-1-2021  
Possibly-Batman committed on Oct 1

7c8f8c4 <>

Copyright Research ...  
keba2993 committed on Oct 1

Verified 3cfb616 <>

main		
Commits on Sep 28, 2021		
Uploading PDF of milestone 2 Possibly-Batman committed on Sep 28	3dce9c6	<>
Uploading PDF of milestone 2 Possibly-Batman committed on Sep 28	d611228	<>
Merge branch 'main' of https://github.com/CU-CSCI-3308-Fall-2021/CSCI... Possibly-Batman committed on Sep 28	9d5392e	<>
Uploading PDF of milestone 2 Possibly-Batman committed on Sep 28	87ced3f	<>
Milestone 2 shreyaan01 committed on Sep 28	Verified 09f8ab3	<>
Commits on Sep 24, 2021		
9-24-2021 meeting log Possibly-Batman committed on Sep 24	737713c	<>
Commits on Sep 19, 2021		
milestone 1 pdf Possibly-Batman committed on Sep 19	1fbdbae	<>
Commits on Sep 17, 2021		
9-17-2021 meeting log Possibly-Batman committed on Sep 17	257eb37	<>
Commits on Sep 14, 2021		
Merge branch 'main' of https://github.com/CU-CSCI-3308-Fall-2021/CSCI... Possibly-Batman committed on Sep 14	69a217d	<>
Version control Milestone 1 Possibly-Batman committed on Sep 14	cd537c1	<>
update Readme keba2993 committed on Sep 14	Verified 8a8d5e1	<>
Commits on Sep 6, 2021		
Initial commit vishalprabha committed on Sep 6	Verified 44ece83	<>

## Deployment:

<https://tris-aaa12.web.app/home.html>

Above is a link to the app deployed through Firebase. If this does not work, then the app can be deployed on a local host by downloading the project files and deploying using VS Code's Live Server extension.