MICHIGAN STATE UNIVERSITY **Beta Presentation Rules Test Practice-Tool** The Capstone Experience **Team Union Pacific Hailey Cohen**

Matthew Dunn Manav Singh Timothy Sung

Department of Computer Science and Engineering Michigan State University

Spring 2024

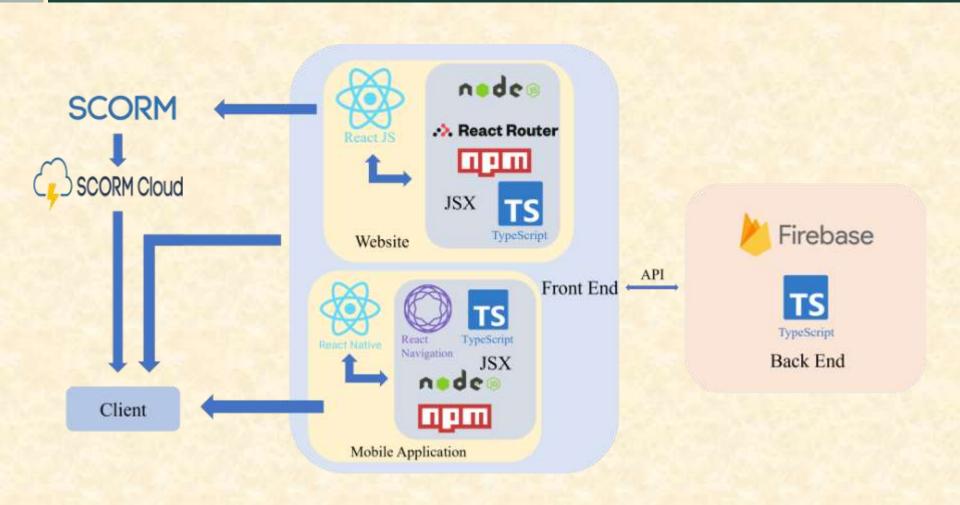


From Students... ...to Professionals

Project Overview

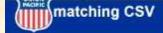
- Online license renewal exam, 3000+ rules
- Replace former third-party study/testing apps
- Custom-built web and mobile app
 - Dynamic scaling
 - Flexible question and file formats
 - Engaging user interface
- Respond to employee feedback and promote good study habits

System Architecture



Web - Flashcards

← → C G rulestestpracticetool unionpacific

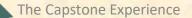


What year was the first public railway established?









2 D Brest New Chrome available :

End Review

TIME TAKEN: 00:01:02

Mobile

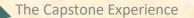


Web - Homepage

	Search Quig Name	HISTORY	SETTINGS	LOG OUT
DEMO: Selective Game Modes Frain Enthusiast Fest your knowledge about trains, their history, and their technology!				
DEMO: Inclusive Game Modes rain Enthusiast Test your knowledge about trains, their history, and their technology!				
Frain Trivia Quiz ^{rain Enthusiest} fest your knowledge about trains, their history, and their technology!				
all question types - CSV upload rain Enthusiast Fest your knowledge about trains, their history, and their technology!				
all question types - JSON upload rain Enthusiast fest your knowledge about trains, their history, and their technology!				
	Test your knowledge about trains, their history, and their technology!	Train Enthusiast Test your knowledge about trains, their history, and their technology! DEMO: Inclusive Game Modes Train Enthusiast Test your knowledge about trains, their history, and their technology! Train Trivia Quiz Train Enthusiast Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology! Test your knowledge about trains, their history, and their technology!	Train Enthusiast Test your knowledge about trains, their history, and their technology! DEMO: Inclusive Game Modes Fain Enthusiast Test your knowledge about trains, their history, and their technology! Train Trivia Quiz Fain Enthusiast Test your knowledge about trains, their history, and their technology! All question types - CSV upload Fain Enthusiast Test your knowledge about trains, their history, and their technology! All question types - JSON upload Fain Enthusiast	rain Enthusiast Test your knowledge about trains, their history, and their technology! DEMO: Inclusive Game Modes Fain Enthusiast Test your knowledge about trains, their history, and their technology! Train Trivia Quiz Fain Enthusiast Test your knowledge about trains, their history, and their technology! Inclusion types - CSV upload Fain Enthusiast Test your knowledge about trains, their history, and their technology! Inclusion types - JSON upload Fain Enthusiast Test Fundualest

Web - Leaderboard

C G rulestestpri	eticetoolumionpacific :				New Chrome ava
Leaderboard: I	DEMO: Inclusive Game Modes				Rena
		Personal Leade	rboard	Clear	
1	March 27, 2024 al 07:19 PM	Time: 00h 00m 99s	Score: 3		
2	March 27, 2024 at 07:19 PM	Time: 00h 00m 06s	Score: 2		
		Global Leade	rhoord		
-	Name: Haley	March 27, 2024 at 07:19 PM		Score: 3	
2	Name: matt	March 26, 2024 at 11:26 PM		Score: 3	
- 3	Name: h2	March 25, 2024 at 10:13 PM		Score 3	
4	Nome: htt	March 25, 2024 at 08:39 PM		Score 1	
5	Nome: a	March 26, 2024 at 12:35 PM		Score: 0	
		Monthly Leaderb	oard: March		
3	Name: h2	March 25, 2024 at 10:13 PM	Time: 00h 02m 09s	Score: 3	
2	Name: matt	March 26, 2024 at 11:26 PM	Time: 00h 00m 08s	Score: 3	
э	Name: Halley	March 27, 2024 at 07:19 PM	Time: 00h 00m 09s	Score 3	
4	Name: N1	March 25, 2024 at 08:39 PM	Time: 00h 00m 02s	Score: 1	
100	About a	March 05, 0004 at 40:00 DM	Teres 005 000-000	Press P	



What's left to do?

- Feature Complete
- Stretch Goals
 - Color-blind mode
 - Sound design
- Other Tasks
 - UI fixes
 - UX improvements
 - Error handling and bug fixes

Questions?

