

Our Goal

Provide a teacher-driven computer programming platform to ease transition for first-time programming students by promoting out-ofclass learning and healthy competition in an unbiased environment.

Problem Motivation

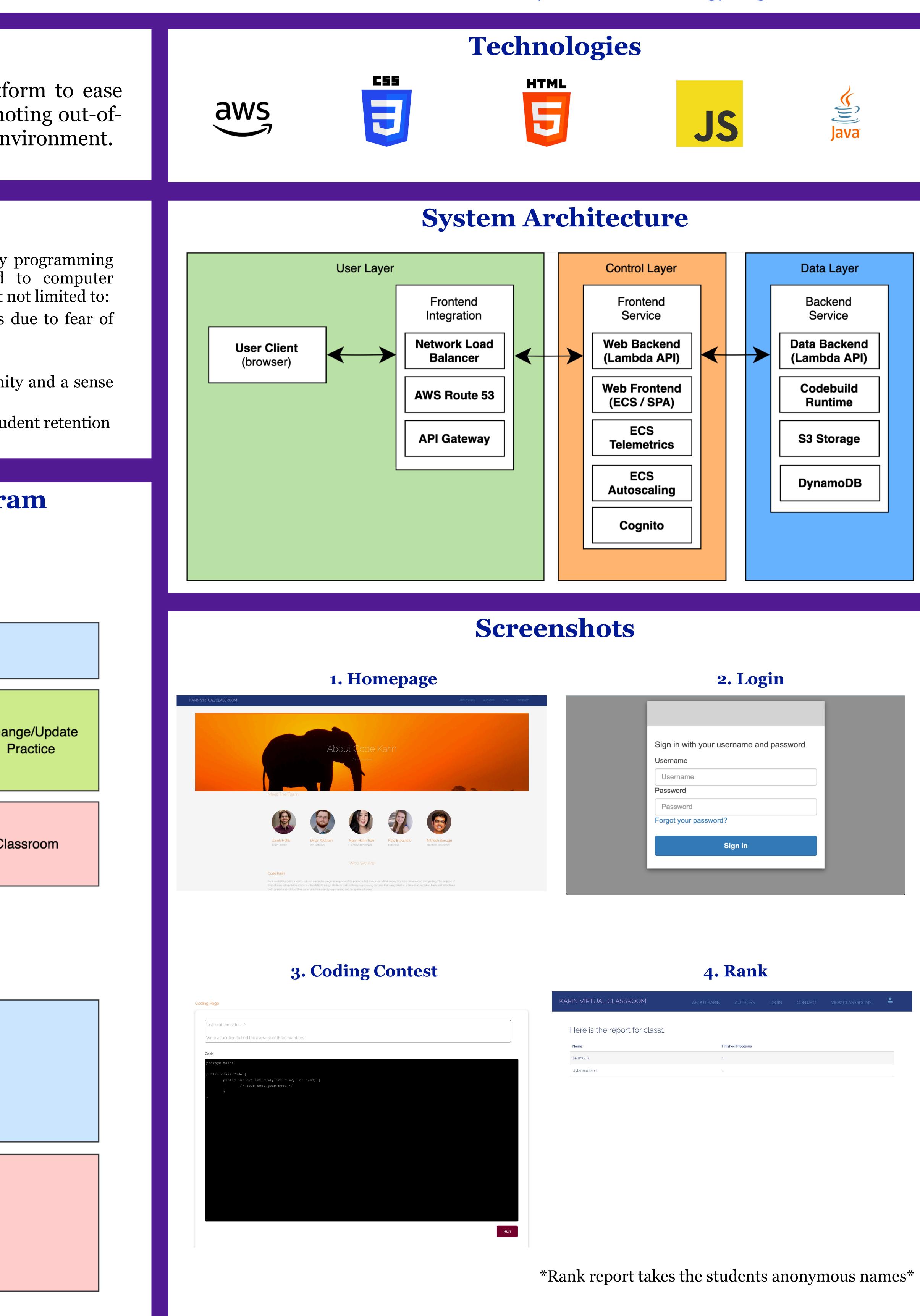
The problem of student retention, especially females, in introductory programming courses is not one with an easy solution. Students introduced to computer programming for the first time often encounter problems including, but not limited to:

- Feeling peer pressured and unsure about speaking up in class due to fear of judgment.
- Understanding continuous out-of-class programming practice.
- Transitioning into an unknown environment, building community and a sense of belonging.

Code Karin is designed to address these common issues and increase student retention in CS.

Use Cases and the Use Goal Diagr								
Professor								
	See	students who att	tend which prac	ctice				
Create Practice	Assign Practice Delete		Delete Pra	actice	Cha			
Create Classroom		Delete Cla	Up	odate C				
		Stu	Ident					
View Practice			Do Practice					
See Solutions			See Ranks					

Advisors: Dr. Krishna Kadiyala and Dr. Bingyang Wei

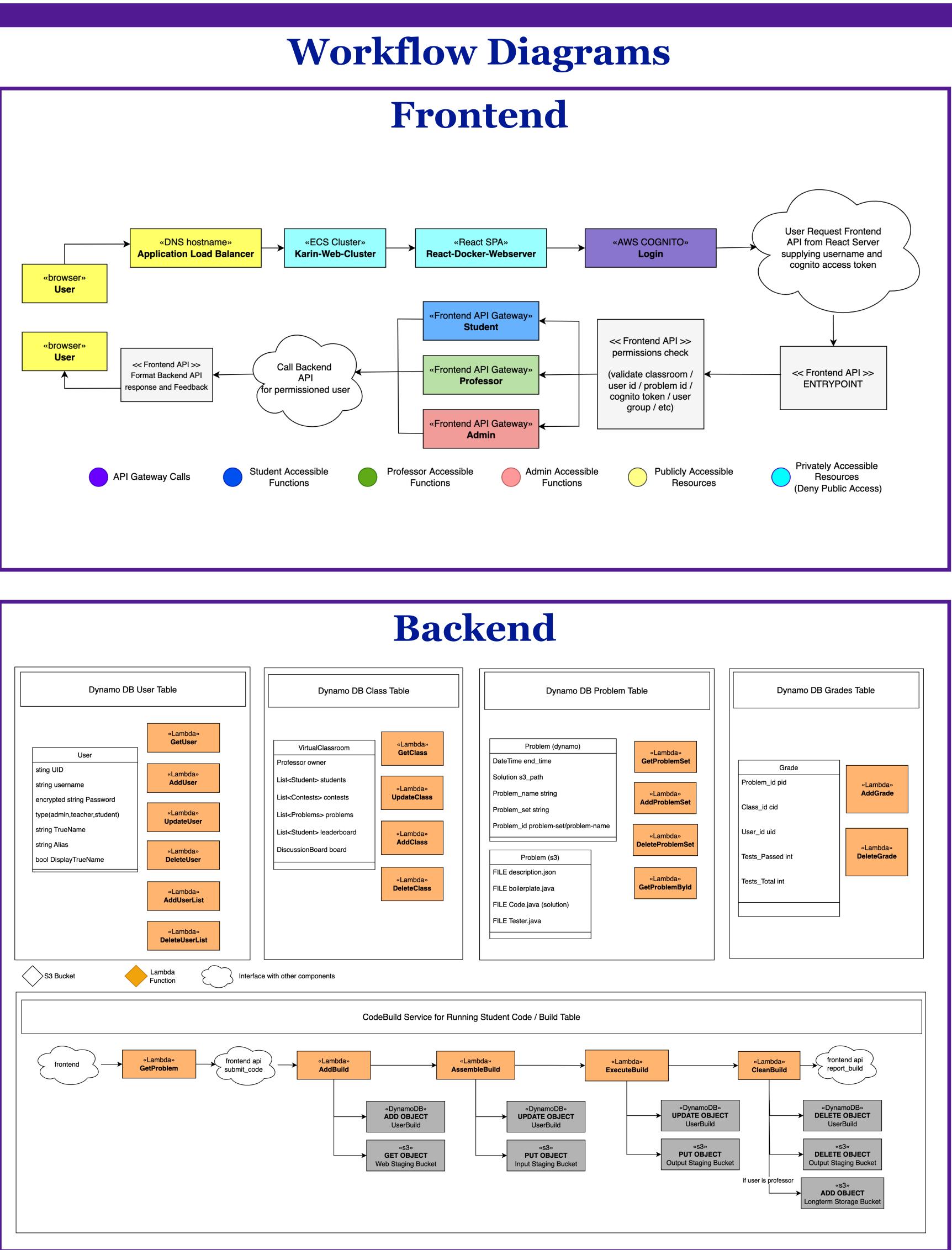


Code Karin

Authors: Nithesh Bonugu, Jacob Hollis, Kate Brayshaw, Ngan Hanh Tran, Dylan Wulfson







	Dynamo DB I	Jser Table
		«Lambd GetUse
	User	
	sting UID	«Lambd
	string username	AddUse
	encrypted string Password	
	type(admin,teacher,student)	«Lambd UpdateU
	string TrueName	opulloo
	string Alias	«Lambd
	bool DisplayTrueName	DeleteUs
		«Lambo
		AddUser
		«Lambo DeleteUse
\langle	S3 Bucket	Lambda Function
	frontend	«Lambda» GetProblem

- Practice problems
- Edit classrooms
- User anonymity

Challenges

- Utilizing AWS micro services architecture
- Learning new complex technologies

ign in with your username and passwore
sername
Username
assword
Password
orgot your password?
Sign in

KARIN VIRTUAL CLASSROOM	ABOUT KARIN	AUTHORS	LOGIN	CONTACT	VIEW CLASSROOMS	.
Here is the report for class1						
Name	Fini	shed Problems				
jakehollis	1					
dylanwulfson	1					

Features

Hold programming contests

- Login
- Student Ranking
- Edit practice
- Edit contest

Managing group work
Adjusting to clients needs

Acknowledgments

Our team would like to thank Dr. Kadiyala and Dr. Wei for giving us the opportunity to create a programming platform.