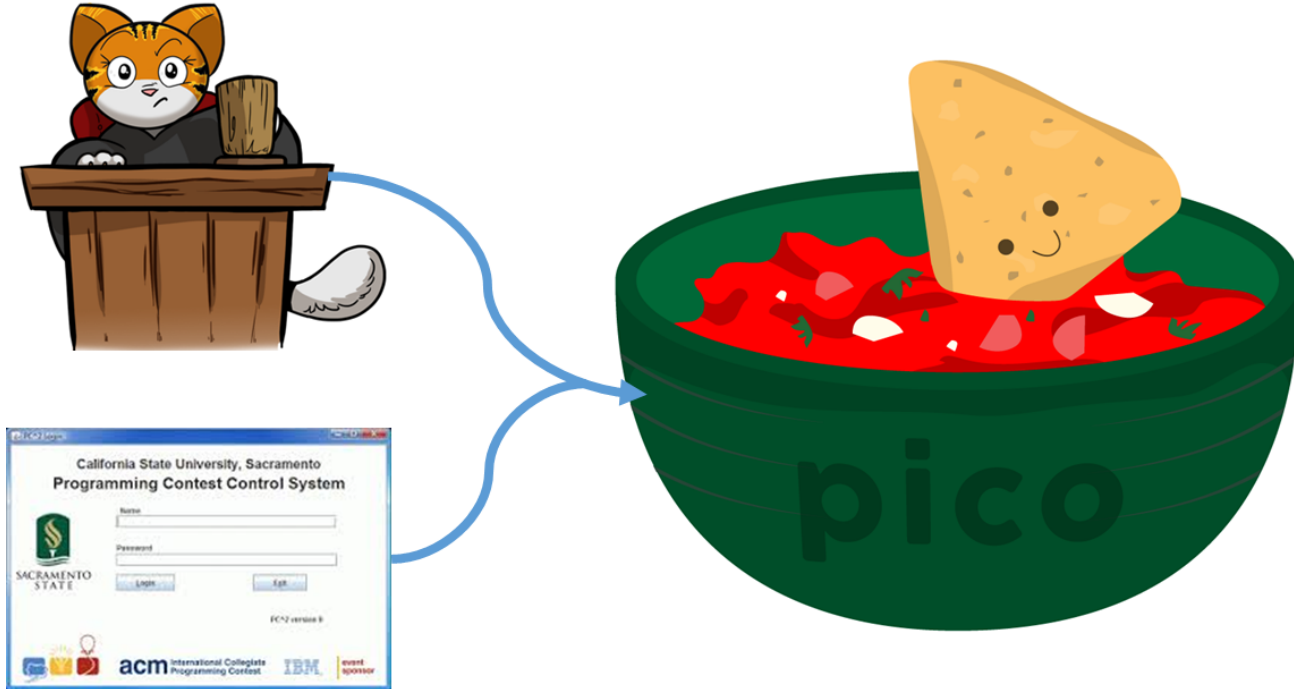


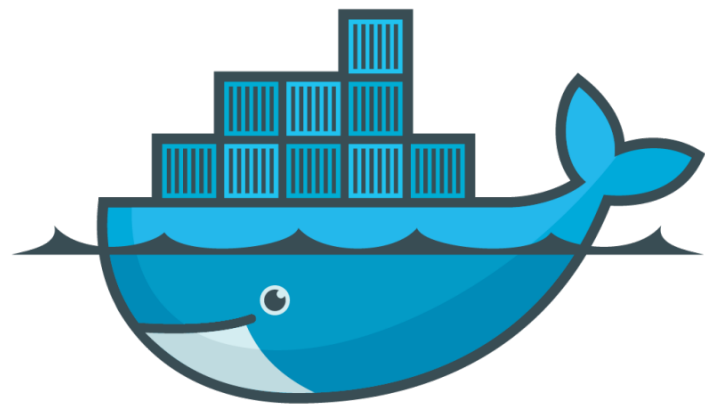
Programming and Instructional Contest Organizer

Jamel Charouel, Jason Deng, Vivian Liu, Derek McMahon,
Austin Petrie, Nathan Williams

What is PiCO?



Technologies Used



docker

HIGHCHARTS

Tools Used



Challenges Faced

Testing code run in Docker

- Separate code into small units

- Use dependency injection

Handling authorization

- Authorization changes with contest state

 - Inactive

 - Active

 - Past

- Authorization changes between contests

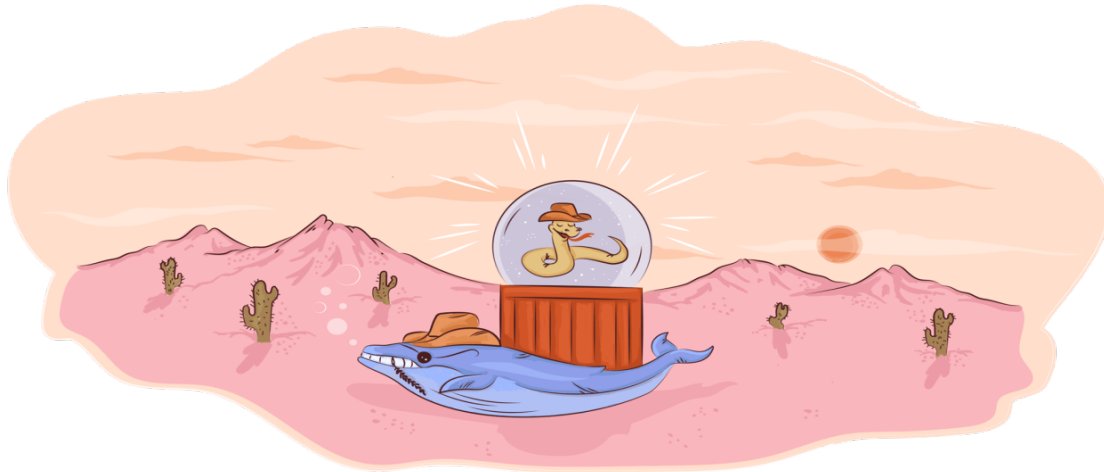


Future Improvements

Classroom functionality

Dockerize entire web app

Add Anti-Plagiarism functionality



DEMO!

Screenshots: Main Contest Page

PICO

ScreenshotContest

01h : 46m : 06s remaining

ScreenshotContest

Judge Panel:

View all submissions

Edit Contest

Delete Contest

View Scoreboard

View my submissions

Problem Descriptions

Contest Problems:

Problem 1	Submission Attempts: 1	Status: Yes
Problem 2	Submission Attempts: 1	Status: No - Compilation Error
Problem 3	Submission Attempts: 1	Status: New

Screenshots: Contest Scoreboard



ScreenshotContest

Team	Question 1	Question 2	Question 3	Score	Attempt Time Penalty
banana	Correct	Incorrect	Incorrect	1	60
apple	Pending	Correct	Pending	1	60


Screenshots: Main PiCO Page


PiCO

Contests

Teams

Statistics

▼

▼

+ New Contest

All Contests

Active

Unstarted

Past

Invitation

Active Contests

ScreenshotContest: 1:45:17 remaining

Contest Invitations

No contest invitation

Unstarted Contests

No unstarted contests

Past Contests

No past contests

Screenshots: Judge Diff Page

PiCO

[ScreenshotContest](#) / [Submissions](#) / [Judge](#)

01h : 16m : 45s remaining

ScreenshotContest

Judging submission:

Run ID: 14	Team: banana	State: New
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firstprevnextlast

☒ Whitespace☒ Empty linesDifferences: 2 lines

Submission	Solution
1Hello World! :)	1Hello World! :)
2	2
	3Hello Again! :D
	4

Result

Submit