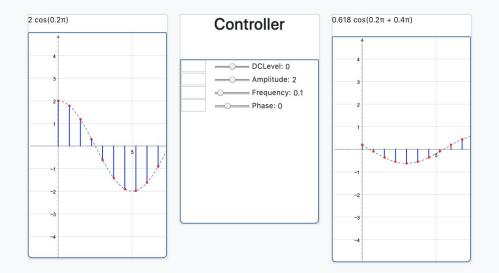
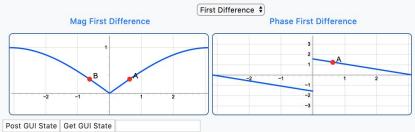
DLTI2

William Wu, Will Smith, Bandhan Patel



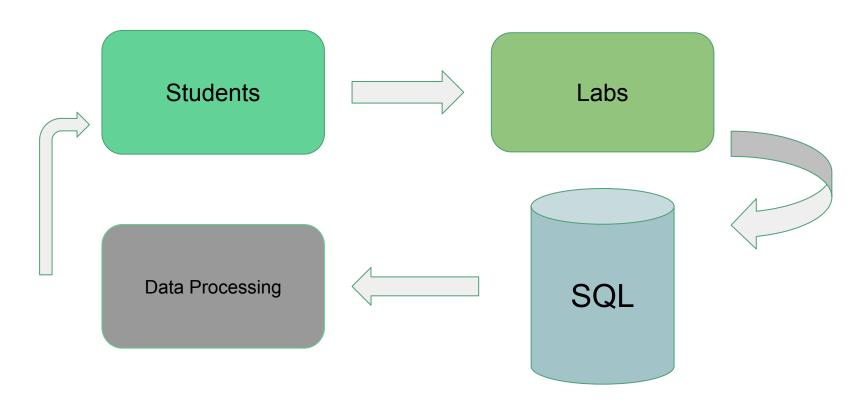




What's the problem?

- Unable to save states
- No database connection
- Unable to record student answers to a database
- Unable to grab states from database
- GUI doesn't update in real time
 - Slider <--> input, slider -> graph

What we want



Tech Stack



Labor Division

Will - GUI, React

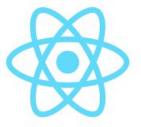
William - SQL, Node/Express

Bandhan - SQL, CSS

Front end

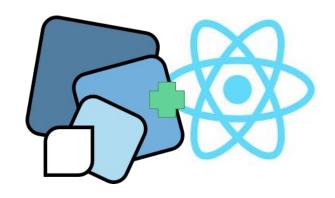
Goal



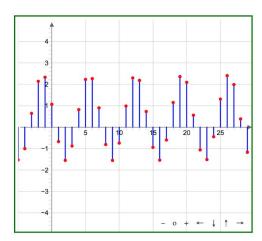


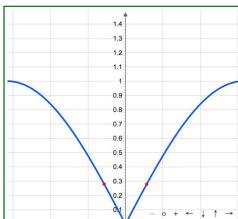
Tools

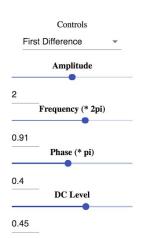


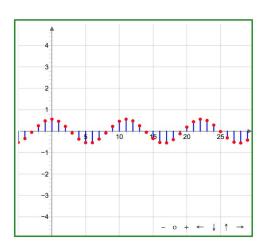


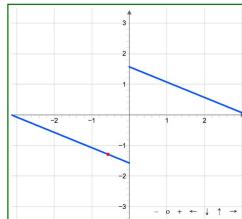
LCT framework











Submit Student ID

Get JSON list



Get JSON list

Back end

Implementation

- MySQL Database
- Node.js/Express/Cors

```
var con = mysql.createConnection({
  host: "localhost",
  user: "root",
  password: "password",
  database: 'labs',
});
con.connect(function(err) {
 if (err) throw err;
  console.log("Connected!");
});
```

1234 1 1 2.11 0.79 0.45 0.22	
	1
1111 1 1 2.65 1 0.77 0.56	1
999 1 1 2.35 1 0.24 0	4

DEMO

Future Implementations

- Frontend additions
 - Mathjax and equations on top of the GUIs
 - Better UI
- Backend additions
 - Update tables with appropriate changes to fit all labs
 - Grab a state from the database
 - Fix backend bugs

Reflection

- Difficult switch from original DLTI to React template (took about 1/3 of semester)
- Challenges
 - Frontend: Lack of React experience
 - Backend: Starting from nothing, learning new tools (SQL, Node, etc.)
- Accomplishments
 - Code is in standard React template
 - DLTI lab demo is moving forward in terms of getting data/answers from students
 - Database implementation

THANK YOU

Questions?