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Helping busy people organize their time

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Outline

1. Demo
2. Dive into code
3. Underlying tools and technologies
4. Challenges
5. Key learning takeaways
6. Future work

Demo

Mon, Jun 25 1:56 PM

Activity

Start time

End time

Description (optional)

Add

Overview	
Sun, Jun 24 at 14:30 - 15:30	Oral exam
Sat, Jun 23 at 18:51 - 20:51	Web Tech Project
Sun, Jun 24 at 17:05 - 22:05	Software Engineering

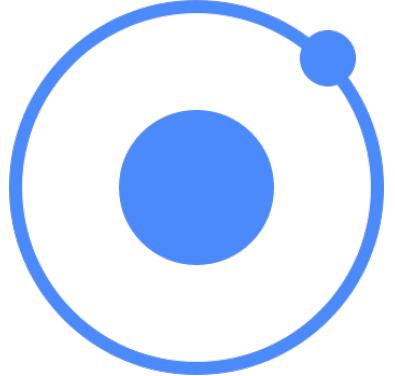
<http://localhost:8100/>

Dive into code

```
▲ api
  ▲ controllers
    JS activityController.js
  ▲ models
    JS activityModel.js
    JS userModel.js
  ▶ node_modules
  ▲ routes
    JS activityRoutes.js
  {} package-lock.json
  {} package.json
  JS server.js
```

```
▲ client
  ▷ .sourcemaps
  ▷ node_modules
  ▲ src
    ▲ app
      TS app.component.ts
      ◄ app.html
      TS app.module.ts
      ↗ app.scss
      TS main.ts
    ▷ assets
    ▲ models
      TS ActivityModel.ts
    ▲ pages
      ▲ overview
        ◄ overview.html
        ↗ overview.scss
        TS overview.ts
      ▷ tabs
    ▲ track
      ◄ track.html
      ↗ track.scss
      TS track.ts
    ▲ providers
      ▲ activity-service
        TS activity-service.ts
```

Underlying tools and technologies



HTML



express



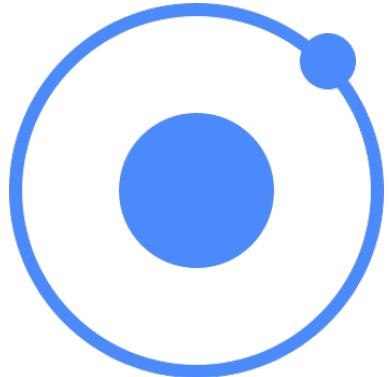


HTML



express

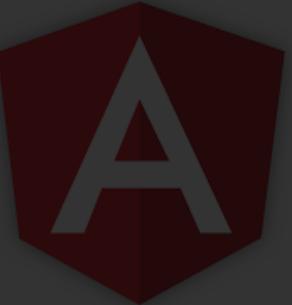




HTML



express





HTML



express



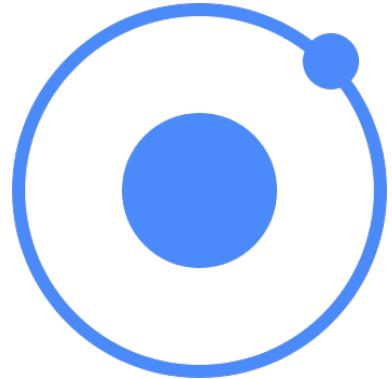


HTML



express





HTML



express



Challenges

1. Backend services
2. Front and backend communication

Backend services– AWS mobile hub



Pros

One application, many services

User authentication

Database

Cloud logic (lambda functions)

Hosting

Cheap \$\$

Cons

Heavy, messy boiler plate code

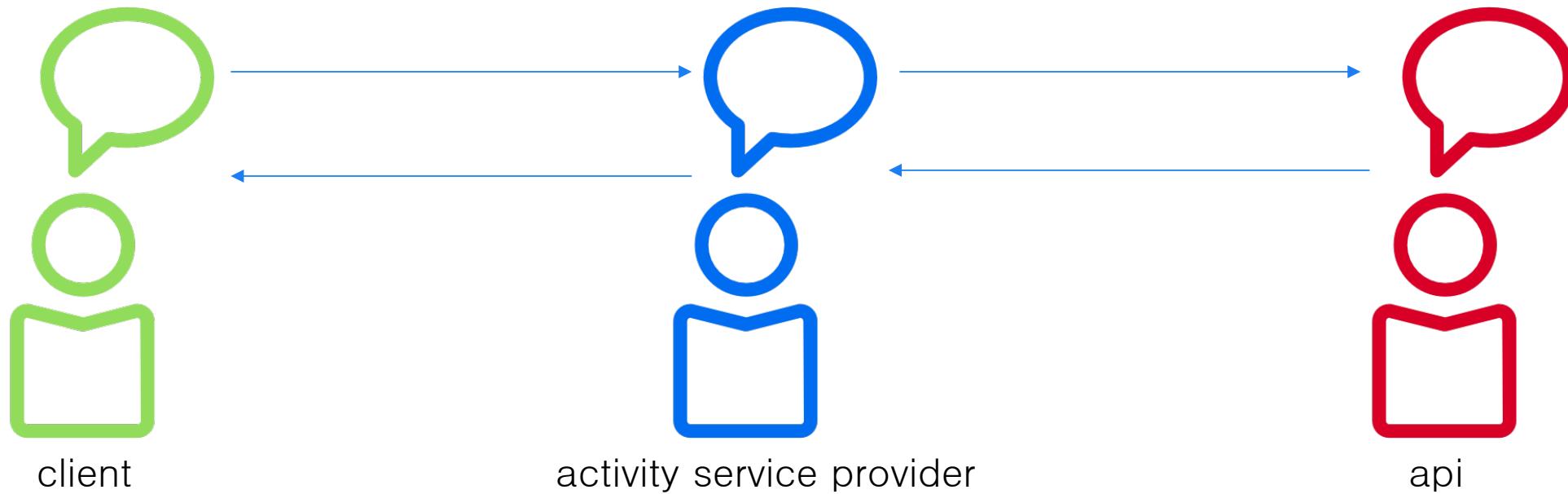
Lacks modularity

Front and backend communication



How can the client talk to the API?

Through Activity Service Provider



Future work

- Automatic reload of activities.
- User authentication.
- Deployment of server-side API.

Key learning takeaways

- Resource modeling.
- RESTful API design.
- Modularization of code.
- Source control.

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```
src
  app
    app.component.ts
    app.html
    app.module.ts
    app.scss
    main.ts
  assets
  models
    ActivityModel.ts
  pages
    overview
      overview.html
      overview.scss
    overview.ts
  tabs
    track
      track.html
      track.scss
    track.ts
  providers
    activity-service
    activity-service.ts
```