

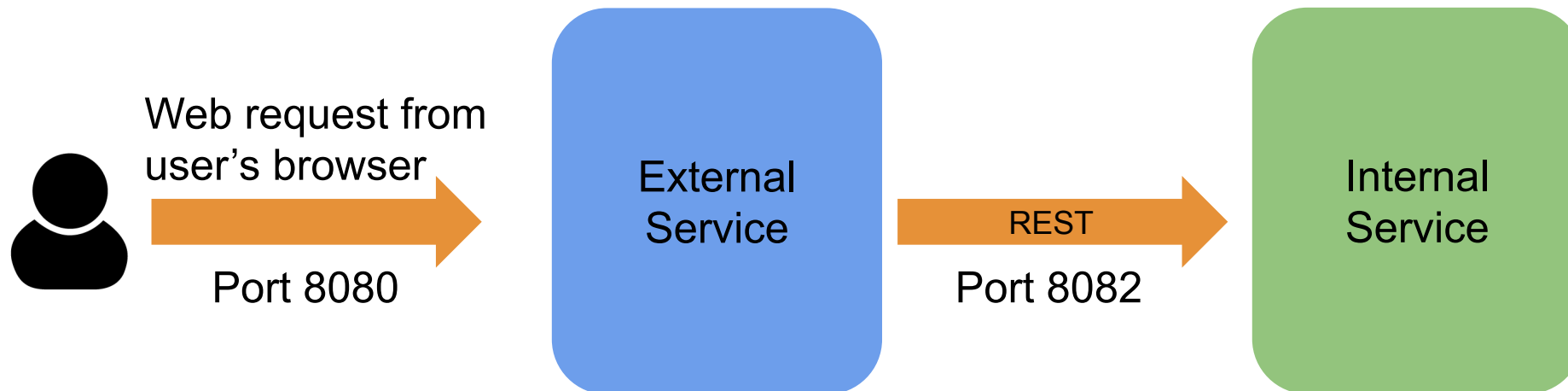


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Cheat Sheet: Case Study Example Starting Point

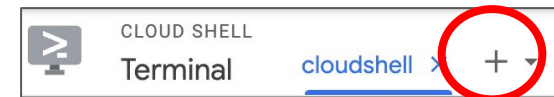
About the Starting Point App

- The starting point app is provided as an example to help get started
 - Uses Node.js with the express web server on two microservices
- The *internal* service receives REST requests on port 8082 and returns mock data
- The *external* service inserts JSON from the server into an html template in the Views folder and returns it to the requestor on port 8080



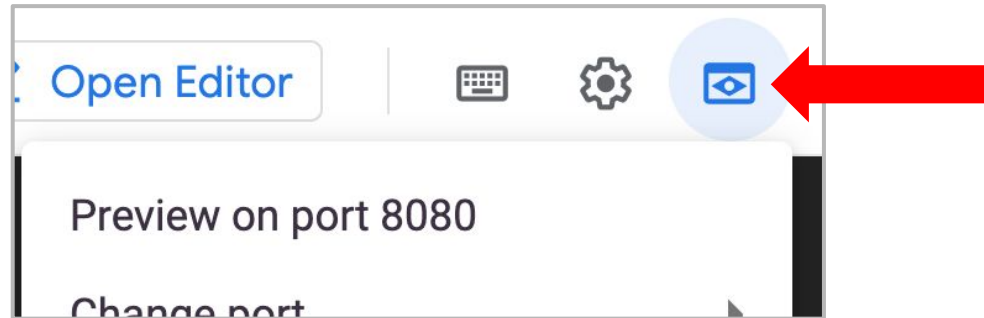
Using the Startpoint

- In Cloud Shell, run the following commands:
 - `wget https://storage.googleapis.com/deloitte-training/events-app.zip`
 - `unzip events-app.zip`
 - `cd events-app/internal`
 - `npm install`
 - This installs the application dependencies specified in package.json
 - `node server.js`
 - This starts the internal service
- Open a second Cloud Shell terminal by clicking the + and run these commands:
 - `cd events-app/external`
 - `npm install`
 - `npm start`
 - This starts the external service



Using the Startpoint

- Once both services are running in Cloud Shell, it can be tested with the **Preview on port 8080**



- A new browser tab should open displaying the app startpoint

Welcome to [TEAM NAME'S] application

- a mock event

something really cool

Location: Chez Joe Pizza

Likes: 0

Like

UN-Like

Tip: Editing Files in CloudShell with nano

For Information only:

- Google Cloud Shell includes a built-in code editor
 - Easy to use
- You can also use **vi** or **nano** editor in Cloud Shell
 - You are welcome to use them if you know how
 - Beyond the scope of this course
- Here are a few tips on using nano if you want to try:
 - To edit a file, type: nano *filename*
 - Use the arrow keys on your keyboard to navigate within the file
 - To save the file and exit the editor:
 - Press **<CTRL>+X**, press **Y** and then press **<Enter>**

Customizing the App

- Once you get the app running, customize the app with your name:
 - In Cloud Shell Editor, use the tree view on the top-left to navigate the folders
 - Edit the **events-app/external/views/layouts/default.hbs** file
 - Change [TEAM NAME] to your name in two places
 - Save the file and reload the browser tab with the app preview
- Throughout the course, you will add additional features to the app
 - Add additional fields to the event
 - Ability to add images to events
 - Currently all data just saved in memory
 - We will add a database later
- Take a look at **home.hbs** in the **events-app/external/views/** folder

Dependencies

For information only:

- The external and internal services both use the following npm packages:
 - Express: a web server: <https://www.npmjs.com/package/express>
 - body-parser to convert JSON and form data in the request into parameters: <https://www.npmjs.com/package/body-parser>
 - Mocha, Chai, and SuperTest (for unit testing):
 - <https://www.npmjs.com/package/mocha>
 - <https://www.npmjs.com/package/chai>
 - <https://www.npmjs.com/package/supertest>
 - nyc for code coverage reporting: <https://www.npmjs.com/package/nyc>
 - The external service uses the following additional libraries:
 - express-handlebars (a templating library):
<https://github.com/ericf/express-handlebars>
 - Nock (for mocking the api call): <https://www.npmjs.com/package/nock>

Stopping and Starting the Services

- If you need to stop a service, simply press <CTRL>+C in the Cloud Shell terminal
- To start the service again:
 - For internal, run `node server.js`
 - For external, run `npm start`

Implementing Twelve-Factor App

- After you get the case study running, as a group, come up with specific ways the case study application conforms to the twelve factors
 - There is a slide in your Google Slides document to record your results

Success!

- **Congratulations!** You have successfully run the class case study