# 10 Object-Oriented Programming: Team Profile Generator

#### Your Task

Your task is to build a Node.js command-line application that takes in information about employees on a software engineering team, then generates an HTML webpage that displays summaries for each person. Testing is key to making code maintainable, so you'll also write a unit test for every part of your code and ensure that it passes each test.

Because this application won't be deployed, you'll need to provide a link to a walkthrough video that demonstrates its functionality and all of the tests passing. You'll need to submit a link to the video AND add it to the readme of your project.

Note: There is no starter code for this assignment.

## **User Story**

AS A manager I WANT to generate a webpage that displays my team's basic info SO THAT I have quick access to their emails and GitHub profiles

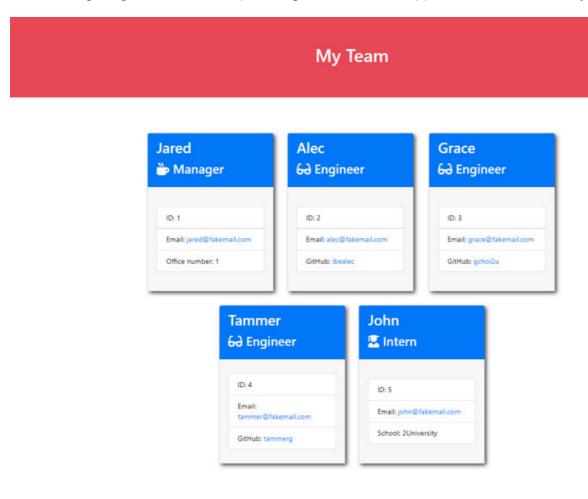
## Acceptance Criteria

GIVEN a command-line application that accepts user input WHEN I am prompted for my team members and their information THEN an HTML file is generated that displays a nicely formatted team roster based on user input WHEN I click on an email address in the HTML THEN my default email program opens and populates the TO field of the email with the address WHEN I click on the GitHub username THEN that GitHub profile opens in a new tab WHEN I start the application THEN I am prompted to enter the team manager's name, employee ID, email address, and office number WHEN I enter the team manager's name, employee ID, email address, and office number THEN I am presented with a menu with the option to add an engineer or an intern or to finish building my team WHEN I select the engineer option THEN I am prompted to enter the engineer's name, ID, email, and GitHub username, and I am taken back to the menu WHEN I select the intern option THEN I am prompted to enter the intern's name, ID, email, and school, and I am taken back to the menu

```
WHEN I decide to finish building my team \, THEN I exit the application, and the HTML is generated
```

# Mock-Up

The following image shows a mock-up of the generated HTML's appearance and functionality:



The styling in the image is just an example, so feel free to add your own.

# **Getting Started**

This homework will combine many of the skills we've covered so far. In addition to the User Story and Acceptance Criteria, we've provided some guidelines to help get started.

Your application should use Jest for running the unit tests and Inquirer for collecting input from the user. The application will be invoked by using the following command:

```
node index.js
```

It is recommended that you start with a directory structure that looks like the following example:

```
.
|----__tests__/ //jest tests
```

**Important**: Make sure that you remove dist from the .gitignore file so that Git will track this folder and include it when you push up to your application's repository.

The application must include Employee, Manager, Engineer, and Intern classes. The tests for these classes (in the \_tests\_ directory) must ALL pass.

The first class is an <a>Employee</a> parent class with the following properties and methods:

- name
- id
- email
- getName()
- getId()
- getEmail()
- getRole()—returns 'Employee'

The other three classes will extend Employee.

In addition to Employee's properties and methods, Manager will also have the following:

- officeNumber
- getRole()—overridden to return 'Manager'

In addition to Employee's properties and methods, Engineer will also have the following:

- github—GitHub username
- getGithub()
- getRole()—overridden to return 'Engineer'

In addition to Employee's properties and methods, Intern will also have the following:

- school
- getSchool()

• getRole()—overridden to return 'Intern'

Finally, although it's not a requirement, consider adding validation to ensure that user input is in the proper format.

## **Grading Requirements**

This homework is graded based on the following criteria:

Deliverables: 15%

- A sample HTML file generated using the application must be submitted.
- Your GitHub repository containing your application code.

Walkthrough Video: 32%

- A walkthrough video that demonstrates the functionality of the Team Profile Generator and passing tests must be submitted, and a link to the video should be included in your README file.
- The walkthrough video must show all four tests passing from the command line.
- The walkthrough video must demonstrate how a user would invoke the application from the command line.
- The walkthrough video must demonstrate how a user would enter responses to all of the prompts in the application.
- The walkthrough video must demonstrate a generated HTML file that matches the user input.

## Technical Acceptance Criteria: 40%

- Satisfies all of the preceding acceptance criteria plus the following:
  - Uses the Inquirer package.
  - Uses the Jest package for a suite of unit tests.
  - The application must have Employee, Manager, Engineer, and Intern classes.

## Repository Quality: 13%

- Repository has a unique name.
- Repository follows best practices for file structure and naming conventions.
- Repository follows best practices for class/id naming conventions, indentation, quality comments, etc.
- Repository contains multiple descriptive commit messages.
- Repository contains a high-quality readme with description and a link to a walkthrough video.

## Review

You are required to submit the following for review:

• A walkthrough video that demonstrates the functionality of the application and passing tests.

- A sample HTML file generated using your application.
- The URL of the GitHub repository, with a unique name and a readme describing the project.

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