

4 - Midterm Review

1. Learning Outcomes

On completion of this lab you will have combined all of the techniques from the previous labs into a single application implementation

2. Organisation

Please complete the exercises individually.

3. Grading

This worksheet is worth up to 10% of your overall module grade. You must attend and sign in at the labs in order to obtain the credit for the associated worksheets. You may work on this worksheet during lab 7 and lab 8 with instructor assistance. You must also demonstrate your submission in order to receive credit - see below.

4. Submission

The deadline for submission is Wednesday Nov 9, 2016 @23:59 through Webcourses.

5. Demonstration

You will give a brief demonstration of your submission to the lab instructor in lab 9.

6. Requirements

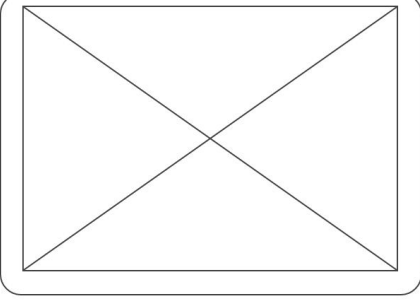
For this lab you will need to watched the video material already posted and have completed the first 3 labs

7. Problem Sets

Provide Javascript ES6 code for the following problems using JS Bin or your own development environment as you prefer.

Problem	You will build a web application for querying user information from the Github API that looks like the following:
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User Profile



Name
Username
Email
Location
Number of Gists

User Repos

Name
Description
Name
Description
Name
Description
Name
Description
Name
Description

Notes:

- Use only native APIs, Javascript, HTML and CSS (no external libraries permitted)
- The API endpoint for retrieving user information is <https://api.github.com/users>. A response object looks like the following

```
[object Object] {
  avatar_url: "https://avatars.githubusercontent.com/u/9919?v=3",
  bio: "How people build software.",
  blog: "https://github.com/about",
  company: null,
  created_at: "2008-05-11T04:37:31Z",
  email: "support@github.com",
  events_url:
    "https://api.github.com/users/github/events{/privacy}",
  followers: 0,
  followers_url: "https://api.github.com/users/github/followers",
  following: 0,
  following_url:
    "https://api.github.com/users/github/following{/other_user}",
  gists_url: "https://api.github.com/users/github/gists{/gist_id}",
  gravatar_id: "",
  hireable: null,
```

	<pre> html_url: "https://github.com/github", id: 9919, location: "San Francisco, CA", login: "github", name: "GitHub", organizations_url: "https://api.github.com/users/github/orgs", public_gists: 0, public_repos: 152, received_events_url: "https://api.github.com/users/github/received_events", repos_url: "https://api.github.com/users/github/repos", site_admin: false, starred_url: "https://api.github.com/users/github/starred{/owner}/{repo}", subscriptions_url: "https://api.github.com/users/github/subscriptions", type: "Organization", updated_at: "2016-10-09T05:43:27Z", url: "https://api.github.com/users/github" } </pre> <ul style="list-style-type: none"> • The user of your application can input a username and search in Github for that user's information • The information should be displayed as shown, including the avatar picture at the top left • The repo information can be obtained by following the "repos_url" • Marks will be awarded for code quality such as formatting and how DRY your code is
Marking	<ul style="list-style-type: none"> • Application layout as above (25 Marks) • Displaying user profile information (25 Marks) • Displaying user repo information (30 Marks) • Code quality (20 Marks)