

# Assignment 2

70% of Overall Grade

The screenshot shows a web browser window with the URL `donationweb-4-0.herokuapp.com/#/` in the address bar. The page title is "Donation Web App". The main content features a large heading "Homer for President!!" followed by a quote: "Time for a change Out with Boring Abamo. Giving has never been so easy. Just click [here](#) to go to the Donation page and empty your wallet". To the right of the text is a cartoon illustration of Homer Simpson with his arms raised in excitement. At the bottom of the page, there is a link "View the Practical Lab for this App on [GitBook.com](#)".

# Agenda

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- Specification
- Grading Rubric
- Submission Guidelines
- Presentation



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## Assignment 2 – Options

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Continue working on your own app, exhibiting similar level of complexity/feature density as covered in the 2<sup>nd</sup> half of the Semester.



# Case Study RECAP – Donation (Assignment 1)

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- A Node Web Server to manage donations made to ‘Homers Presidential Campaign ’.
- App Features (all via RESTful API)
  - POST a payment type and donation amount in JSON format
  - GET a list of donation amounts and types
  - GET an individual donation using an ID
  - DELETE an individual donation using and ID
  - Upvote a donation via PUT request
- Persistence via MongoDB

# Case Study – Donation (Assignment 2)

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- A FULL JS Web App with a Node Back-end and Angular front-end to manage donations made to ‘Homers Presidential Campaign ’.
- App Features
  - Make a Donation
  - List All Donations (and show the most ‘upvoted’)
  - Upvote an individual donation using an ID
  - DELETE an individual donation using and ID
- Persistence via MongoDB

# Sample Extra Features

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1. Enable User Signup / Registration / Login.
2. The donations are persisted (in an SQLite database), and will be reloaded when a user logs in.
3. Support viewing/updating individual donations.
4. Allow a user to delete their own donations from the database.
5. Store a location with the donation and display on a Map, with donation info attached to marker.

# Web App Features – Sign In

The image displays two side-by-side screenshots of a web application interface, likely a donation platform, showing the sign-in feature.

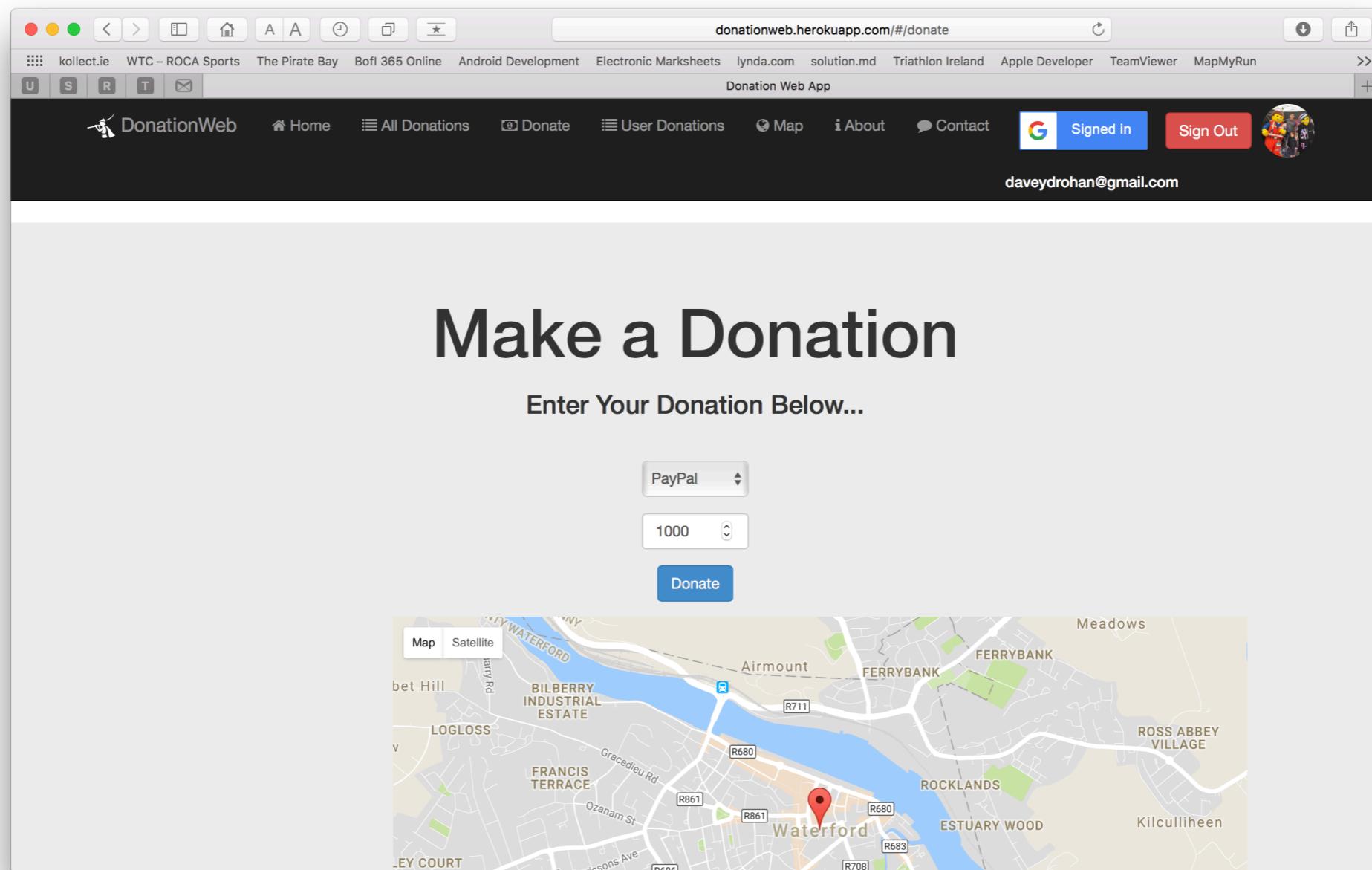
**Screenshot 1 (Left): Unauthenticated State**

- The top navigation bar includes links for "Home", "All Donations", "Donate", "User Donations", "Map", "About", and "Contact".
- The sign-in area features a blue "Sign in" button with a Google icon and a red "Sign Out" button.
- A small Homer Simpson character icon is positioned next to the sign-in buttons.
- The main content area contains promotional text:
  - "Time for a change"
  - "Out with Boring Abamo."
  - "Giving has never been so easy."
  - "Just click [here](#) to go to the Donation page and empty your wallet"
- A "View the tutorial on [GitBook](#)" link is located at the bottom of the content area.

**Screenshot 2 (Right): Authenticated State**

- The top navigation bar remains the same.
- The sign-in area now shows a blue "Signed in" button with a Google icon and a red "Sign Out" button.
- A user profile placeholder for "daveydrohan@gmail.com" is visible.
- A large black arrow points from the "Sign in" button in Screenshot 1 to the "Signed in" button in Screenshot 2.
- The main content area is identical to Screenshot 1.
- A "View the tutorial on [GitBook](#)" link is located at the bottom of the content area.

# Web App Features – Make a Donation

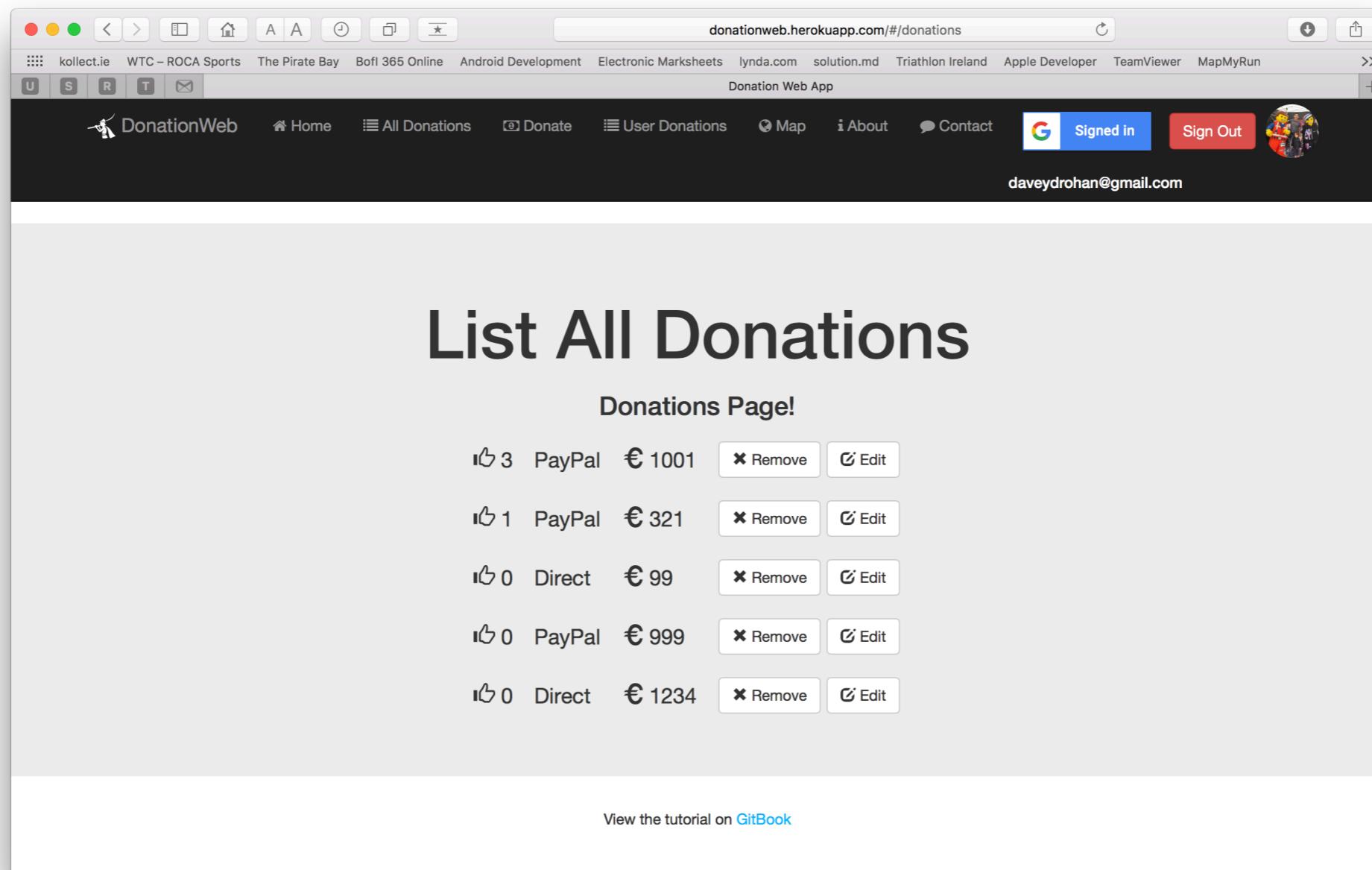


# Web App Features – List All Donations

The screenshot shows a web browser window for the URL [donationweb.herokuapp.com/#/alldonations](https://donationweb.herokuapp.com/#/alldonations). The browser's address bar and various tabs are visible at the top. Below the header, there is a navigation bar with links for Home, All Donations, Donate, User Donations, Map, About, Contact, and a signed-in user account. The main content area is titled "List All Donations". It displays a list of six donations, each with a small profile picture, the number of supporters, the payment method, and the amount in euros.

Supporters	Method	Amount
3	PayPal	€1001
1	PayPal	€321
0	Direct	€999
0	Direct	€1001
0	PayPal	€986
0	PayPal	€1000

# Web App Features – List User Donations



# Web App Features – Edit a Donation

The screenshot illustrates the process of editing a donation within a web application. It consists of two main windows: a modal dialog for updating a single donation and a list view of all donations.

**Update a Donation (Modal Dialog):**

- The title is "Update Existing Donation".
- A dropdown menu shows "PayPal" selected.
- An input field contains the value "3211". This field is highlighted with a red rectangle, and a black arrow points from it to the corresponding row in the "List All Donations" view below.
- A blue "Update Donation" button is at the bottom.
- At the bottom left, there is a link: "View the tutorial on [GitBook](#)".

**List All Donations (Main View):**

- The title is "List All Donations".
- The heading "Donations Page!" is displayed.
- A table lists five donations:

Count	Type	Amount	Actions
3	PayPal	€ 1001	<a href="#">Remove</a> <a href="#">Edit</a>
0	Direct	€ 99	<a href="#">Remove</a> <a href="#">Edit</a>
0	PayPal	€ 3211	<a href="#">Remove</a> <a href="#">Edit</a>
0	PayPal	€ 999	<a href="#">Remove</a> <a href="#">Edit</a>
0	Direct	€ 1234	<a href="#">Remove</a> <a href="#">Edit</a>

- At the bottom left of the main view, there is a link: "View the tutorial on [GitBook](#)".

# Web App Features – Delete a Donation

The image displays three screenshots of a web application titled "List All Donations". The application interface includes a header with navigation links (Home, All Donations, Donate, User Donations, Map, About, Contact), a signed-in user indicator (daveydrohan@gmail.com), and a sign-out button.

**Screenshot 1:** Shows a list of donations. The first two entries are highlighted with a red box. Each entry has a "Remove" button.

Type	Method	Amount	Actions
1	PayPal	€ 1001	<input type="button" value="Remove"/> <input type="button" value="Edit"/>
1	Direct	€ 99	<input type="button" value="Remove"/> <input type="button" value="Edit"/>
1	PayPal	€ 3211	<input type="button" value="Remove"/> <input type="button" value="Edit"/>
1	PayPal	€ 999	<input type="button" value="Remove"/> <input type="button" value="Edit"/>
1	Direct	€ 1234	<input type="button" value="Remove"/> <input type="button" value="Edit"/>

**Screenshot 2:** Shows the same list of donations. The second entry (Direct, € 99) has been selected for deletion, as indicated by a large red box around its row.

**Screenshot 3:** Shows a confirmation dialog box asking "Are you sure you want to delete this?". The "OK" button is highlighted with a black arrow. The rest of the page shows the remaining three donations.

Type	Method	Amount	Actions
1	PayPal	€ 1001	<input type="button" value="Remove"/> <input type="button" value="Edit"/>
1	PayPal	€ 3211	<input type="button" value="Remove"/> <input type="button" value="Edit"/>
1	PayPal	€ 999	<input type="button" value="Remove"/> <input type="button" value="Edit"/>
1	Direct	€ 1234	<input type="button" value="Remove"/> <input type="button" value="Edit"/>

# Web App Features – View Map

The screenshot illustrates the 'View Map' feature of the DonationWeb web application. The main interface shows a map of Waterford, Ireland, with several red markers indicating donation locations. One specific marker in the central part of the city is highlighted with a red box. An arrow points from this highlighted marker to a larger, detailed view of the same map area. In this detailed view, a tooltip provides specific information about a donation:

**PaymentType : PayPal**  
**Amount : €1001**  
**upVotes : 3**  
**Address : Mount Sion Crescent, Waterford, Ireland**

The application's header includes links for Home, All Donations, Donate, User Donations, Map, About, Contact, and a Signed in button. The user is logged in as daveydrohan@gmail.com.

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# Assignment Rubric for Assignment 2

Standard	Client Functionality [60%]	Server Functionality [20%]	UX [10%]	DX [10%]
Baseline	Assignment 1 Functionality with Basic CRUD	MongoDB + Schema	App Navigation (via Menus)	Data Validation
Pass line	Additional		Use of UI elements to complement UX eg DatePicker	Adherence to JS
Good	Functionality as part of CRUD eg searching/filtering	> 2 Additional routes		Best Practices eg SoC, Design
Very Good	Use of > 1 3 <sup>rd</sup> Party API	> 3 Additional routes + Additional Models	UI Guidelines adhered to	Automated Testing
Excellent/ Outstanding (70%+)	Use of > 3 3rd Party APIs/ Google APIs	Cloud Support/acts as BaaS	Material Design Guidelines adhered to	Repo Usage, git etc.

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# README file

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Include a DESIGN Document file (max 20 pages):

- Name and Student ID.
- Full description of Web App functionality, including, Server & Client, specific Frameworks used and if any, 3<sup>rd</sup> party and/or Google APIs used.
- Appropriate UML Diagrams & Use Cases
- Database Schemas
- Git approach adopted and link to git project / access.
- UX/DX approach adopted.
- References

# Submitting Project Code and APK

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Submit zip of code via Moodle dropbox. This zip should also include:

- The Design Document file and
- full source of your web project

Give read access to your lecturer to your GitHub / BitBucket repos. GitHub and BitBucket ids are:

- ddrohan.

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# Presentation

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You will be allocated a 15 minute slot in the week 12 practical labs to present your project.

- Attended by Tuition team only.
- 15 Minute to include demo + Q&A.

Note: I will be strict on the 15 minute allocation, so please arrive into the room with your Laptop ready to go with your app / code walkthrough.

# Questions?

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