

Mobile Application Development

Produced
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Donation Web App Overview

The screenshot shows the Postman application interface. In the top navigation bar, there are buttons for 'New', 'Import', 'Runner', and 'My Workspace'. The 'My Workspace' dropdown is open, showing 'No Environment'. The main workspace displays a 'History' section with a single entry: a 'GET' request to <https://donationweb-hdip-server.herokuapp.com/donations>. The 'Params' tab is selected, showing an empty table. Below the table, the 'Body' tab is selected, displaying the JSON response. The response is a list of three donation objects:

```
1 [ {  
2   "upvotes": 0,  
3   "_id": "5d94435f6f3e1135c00a4af3",  
4   "paymenttype": "Direct",  
5   "amount": 500,  
6   "message": "A Test",  
7   "__v": 0  
8 },  
9 {  
10  "upvotes": 2,  
11  "_id": "5d94438f6f3e1135c00a4af4",  
12  "paymenttype": "PayPal",  
13  "amount": 1500,  
14  "message": "Another Test",  
15  "__v": 0  
16 },  
17 {  
18  "upvotes": 0,  
19  "_id": "5d9447feac511001730bf59",  
20  "paymenttype": "Direct",  
21  "amount": 1100,  
22  "message": "Yet Another Test",  
23  "__v": 0  
24 }  
25 ]
```

The status bar at the bottom indicates a 'Status: 200 OK', 'Time: 7723 ms', and 'Size: 880 B'.



Donation Web App

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



Donation Web App – ‘routes’

```
app.get('/donations', donations.findAll)  
app.get('/donations/votes', donations.findTotalVotes)  
app.get('/donations/:id', donations.findOne)  
app.post('/donations', donations.addDonation)  
app.put('/donations/:id', donations.editDonation)  
app.put('/donations/:id/vote', donations.incrementUpvotes)  
app.delete('/donations/:id', donations.deleteDonation)
```



app.get('/donations', donations.findAll)

The screenshot shows the Postman application interface. The top navigation bar includes 'New', 'Import', 'Runner', 'My Workspace' (selected), 'Invite', 'Upgrade', and various status icons. The main workspace shows a 'History' tab selected, with 'Clear all' and 'Save Responses' options. A 'Collections' tab is also present. Below the tabs, there are three recent requests: 'GET https://donationweb-hdip-server', 'POST https://donationweb-hdip-server', and 'DEL https://donationweb-hdip-server'. The current request is a 'GET' to 'https://donationweb-hdip-server.herokuapp.com/donations/'. The request details show 'Pretty' (selected), 'Raw', 'Preview', and 'JSON' (selected) options. The JSON response body is displayed in a code editor-like view with line numbers:

```
1  [
2  {
3      "upvotes": 0,
4      "_id": "5d94435f6f3e1135c00a4af3",
5      "paymenttype": "Direct",
6      "amount": 500,
7      "message": "A Test",
8      "__v": 0
9 },
10 {
11     "upvotes": 2,
12     "_id": "5d94438f6f3e1135c00a4af4",
13     "paymenttype": "PayPal",
14     "amount": 1500,
15     "message": "Another Test",
16     "__v": 0
17 },
18 {
19     "upvotes": 0,
20     "_id": "5d94477fec511001730bf59",
21     "paymenttype": "Direct",
22     "amount": 1100,
23     "message": "Yet Another Test",
24     "__v": 0
25 }
26 ]
```

A red arrow points to the second object in the array, specifically to the 'amount' field of the PayPal payment.



app.get('/donations/:id', donations.findOne)

The screenshot shows the Postman application interface. In the top navigation bar, there are buttons for 'New', 'Import', 'Runner', and 'My Workspace'. The workspace dropdown is set to 'My Workspace'. On the right side of the header, there are icons for sharing, invite, upgrade, and settings. Below the header, there's a search bar labeled 'Filter' and tabs for 'History' and 'Collections'. Under 'History', there are entries for 'Today' and 'Yesterday'. A red arrow points from the text above to the 'Send' button in the main request area. The request details show a 'GET' method, a URL 'https://donationweb-hdip-server.herokuapp.com/donations/5d94438f6f3e1135c00a4af4', and a preview of the JSON response. The response body is displayed in a code editor-like view:

```
1 * [
2 *   {
3 *     "upvotes": 2,
4 *     "_id": "5d94438f6f3e1135c00a4af4",
5 *     "paymenttype": "PayPal",
6 *     "amount": 1500,
7 *     "message": "Another Test",
8 *     "___": 0
9 *   }
10 ]
```



app.post('/donations',donations.addDonation)

The screenshot shows the Postman application interface. The top navigation bar includes 'New', 'Import', 'Runner', 'My Workspace', 'Invite', 'Upgrade', and various status icons. The left sidebar has 'History' selected, showing 'Clear all', 'Today', and 'Yesterday'. The main workspace shows a POST request to 'https://donationweb-hdip-server.herokuapp.com/donations'. The 'Body' tab is active, displaying a JSON payload:

```
1 {  
2   "paymenttype": "PayPal",  
3   "amount": 1234,  
4   "message": "One Last Test"  
5 }
```

The 'Headers' section contains two entries: 'Content-Type: application/json' and 'Content-Length: 26'. Below the body, there is a 'Response' section which is currently empty.



app.post('/donations',donations.addDonation)

The screenshot shows the Postman application interface. The URL in the header is `https://donationweb-hdip-server.herokuapp.com/donations`. The method is set to `POST`. In the `Body` tab, there is a JSON payload:

```
1 {  
2   "paymenttype": "PayPal",  
3   "amount": 1234,  
4   "message": "One Last Test"  
5 }
```

The response body is displayed in the `JSON` tab:

```
1 {  
2   "message": "Donation Successfully Added!",  
3   "data": {  
4     "upvotes": 0,  
5     "_id": "5da70672a0954e0017138586",  
6     "paymenttype": "PayPal",  
7     "amount": 1234,  
8     "message": "One Last Test",  
9     "__v": 0  
10   }  
11 }
```

A red arrow points to the `_id` field in the response data.



app.post('/donations', donations.addDonation)

The screenshot shows the Postman application interface. In the top navigation bar, there are tabs for 'My Workspace' and 'Invite'. Below the tabs, there are buttons for 'Send' and 'Save'. The main area displays a JSON response with 34 numbered lines. A red arrow points to the last object in the array, which is a donation entry with the following details:

```
3 "upvotes": 0,
4 "_id": "5d94435f6f3e1135c00a4af3",
5 "paymenttype": "Direct",
6 "amount": 500,
7 "message": "A Test",
8 "__v": 0
9 },
10 [
11   {
12     "upvotes": 2,
13     "_id": "5d94438f6f3e1135c00a4af4",
14     "paymenttype": "PayPal",
15     "amount": 1500,
16     "message": "Another Test",
17     "__v": 0
18   },
19   {
20     "upvotes": 0,
21     "_id": "5d94477fec511001730bf59",
22     "paymenttype": "Direct",
23     "amount": 1100,
24     "message": "Yet Another Test",
25     "__v": 0
26   },
27   {
28     "upvotes": 0,
29     "_id": "5da70672a0954e0017138586",
30     "paymenttype": "PayPal",
31     "amount": 1234,
32     "message": "One Last Test",
33     "__v": 0
34 ]
```



app.put('/donations/:id', donations.editDonation)

The screenshot shows the Postman application interface. In the top navigation bar, there are tabs for 'My Workspace' and 'Invite'. Below the tabs, there are several icons for sharing and upgrading. The main workspace shows a list of requests: 'DEL https://donationweb-hdip-server...', 'PUT https://donationweb-hdip-server...', and 'GET https://donationweb-hdip-server...'. The 'PUT' request is selected. A red arrow points from the text 'app.put('/donations/:id', donations.editDonation)' at the top of the slide to the 'Send' button in the Postman interface.

The 'PUT' request details are as follows:

- URL: <https://donationweb-hdip-server.herokuapp.com/donations/5da70672a0954e0017138586>
- Method: PUT
- Headers (2): (This tab is selected)
- Body (JSON): (This tab is selected)
- Pre-request Script: None
- Tests: None

The JSON body content is:

```
1 {  
2   "paymenttype": "PayPal",  
3   "amount": 123,  
4   "message": "Really One Last Test"  
5 }
```

At the bottom of the interface, there are tabs for 'Body', 'Cookies', 'Headers (9)', and 'Test Results'. The status bar indicates: Status: 200 OK, Time: 684 ms, Size: 444 B, Download.



app.put('/donations/:id', donations.editDonation)

The screenshot shows the Postman application interface. In the top navigation bar, there are tabs for 'My Workspace' and 'Invite'. Below the tabs, there are several status indicators: 'DEL https://donationweb-hdip-server...', 'PUT https://donationweb-hdip-server...', 'GET https://donationweb-hdip-server...', and 'No Environment'. The main workspace displays a 'PUT' request to 'https://donationweb-hdip-server.herokuapp.com/donations/5da70672a0954e0017138586'. The 'Body' tab is selected, showing a JSON payload:

```
1 {  
2   "paymenttype": "PayPal",  
3   "amount": 123,  
4   "message": "Really One Last Test"  
5 }
```

Below the body, the 'Pretty' tab of the results panel shows the response message and data:

```
1 {  
2   "message": "Donation Successfully UpDated!",  
3   "data": {  
4     "_id": "5da70672a0954e0017138586",  
5     "paymenttype": "PayPal",  
6     "amount": 123,  
7     "message": "Really One Last Test",  
8     "__v": 0  
9   }  
10 }
```

A red arrow points to the '_id' field in the JSON response.



app.delete('/donations/:id', donations.deleteDonation)

The screenshot shows the Postman application interface. In the top navigation bar, there are tabs for 'New', 'Import', 'Runner', and 'My Workspace'. Below the tabs, there are several status indicators for different requests, including 'DEL https://donationweb-hdip-server...', 'DEL https://donationweb-hdip-server...', and 'GET https://donationweb-hdip-server...'. The main workspace displays a DELETE request to 'https://donationweb-hdip-server.herokuapp.com/donations/5da70672a0954e0017138586'. The 'Body' tab is selected, showing a JSON payload:

```
1 {  
2   "paymenttype": "PayPal",  
3   "amount": 123,  
4   "message": "Really One Last Test"  
5 }
```

A red arrow points from the URL in the request field to the response body. The response body shows a single message: "Donation Successfully Deleted!".

At the bottom of the Postman window, there are buttons for 'Build', 'Browse', and other tools.



References

<https://donationweb-hdip-server.herokuapp.com>

A screenshot of a web browser window. The address bar shows the URL "donationweb-hdip-server.herokuapp.com". The page content is titled "HDip Donation WebApp" and includes a welcome message "Welcome to HDip Donation WebApp". Below the title is a block of server-side code (Node.js/Express.js) defining routes for donations, users, and donation votes. A red arrow points from the top right towards the browser's address bar.

HDip Donation WebApp

Welcome to HDip Donation WebApp

```
// Our Custom Donation Web App Routes
app.get('/donations', donations.findAll);
app.get('/users', users.findAll);
app.get('/donations/votes', donations.findTotalVotes);

app.get('/donations/:id', donations.findOne);
app.get('/users/:id', users.findOne);

app.post('/donations', donations.addDonation);

app.put('/donations/:id', donations.editDonation);
app.put('/donations/:id/vote', donations.incrementUpvotes);

app.delete('/donations/:id', donations.deleteDonation);
```

Thanks.

