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| Test Description | Input | Interaction | Output |
| Register for application | Name, email, username, password | Sends request to server | Return HTTP 200 status |
| Display Friend List | User id | Sends request to server | List of friends |
| Display created bills | User id | Sends request to server | Return charged bills |
| Display bills I owe/paid | User id | Sends request to server | Return bills I owe |
| Create even/split bill/add friend to bill | Amount, description, friend | Sends request to server | Return new bill |
| Dashboard to pay | Bill id | Opens modal | Return bill |
| Pay Bill | User id, bill id | Sends request to server | Update bill to paid |
| Payment Security | No input | Hash algorithm | No output |
| Proof of bill | Picture of bill | Upload file to server | 200 OK Response |
| Notifications of bills charged/paid | Venmo user number | Sends request to API | Text message to user |
| Cancel Bill | Bill id | Sends request to server | 200 OK Response |

Unit Test:

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| --- | --- | --- | --- |
| Test Description | Test Case | Input | Output |
| Signup | Validated | Name, email, username, password | 200 OK Response |
|  | Invalidated | Name, email, username, password | 400 Request Failed Response |
| Login | Successful | Username, password | 200 OK Response |
|  | Failed | Username, password | 400 Request Failed Response |
| Get user data | Valid user id | User id | JSON of user data |
|  | Invalid user id | User id | 400 Request Failed Response |
| Get Venmo access token | Allow Venmo access – valid credentials | Split user id, Venmo user id, Venmo password | Venmo access token |
|  | Allow Venmo access- invalid credentials | Split user id, Venmo user id, Venmo password | Return error |
|  | Deny Venmo Access |  | Redirect to profile |
| Get owned bills/ charged bill | Valid user id | User id | Returns JSON of bill |
|  | Invalid user id | User id | 400 Request Failed Response |
| Create a new bill | Valid Data | Description, amount, user id, friends | 200 Response OK, JSON of created bill |
|  | Invalid Data | Description, amount, user id, friends | 400 Response Failed |
| Pay a bill | Valid | User id, bill id | 200 Response OK |
|  | Invalid | User id, bill id | 400 Response Failed |
| Add friend | Valid username | Username | 200 Response OK, JSON of friend list |
|  | Invalid username | Username | 400 Response Failed |
| Accept Friend | Valid data | User id, Friend id | 200 Response OK, JSON of friends list |
|  | Invalid data | User id, Friend id | 400 Response Failed |