# Endpoint Testing

1. finish the endpoint
2. put the endpoint on the API sheet and confirm with the frontend team that it matches their expectations
3. start the backend server to make sure the endpoint compiles correctly
4. use Postman to test the endpoint
   1. for Get endpoints, simply call the endpoint
   2. for Post endpoints, call the endpoint and send in a JSON object with information that is clearly from testing (ex: if there are string arguments, pass in “test” or “testing”)
      1. then open MongoDB Compass, go to the collection you just posted to, and check if there is a new entry
5. if everything works as expected, push the changes to the Github repository and notify the rest of the team
6. call the endpoint with a fetch call on the frontend and see if the endpoint works as expected
7. if not, update the endpoint and restart from step 2 as applicable

# Sprint 1

1. No user stories fully completed (no testing except for rudimentary backend experimentation with MongoDB)

# Sprint 2

1. As a user, I want my account login information to be secure so my account doesn’t get hacked.

Scenario:

1. Start the app; Select ‘Login’ from the NavBar; type
   * Email = <[jimbo@gmail.com](mailto:jimbo@gmail.com)>
   * Password = <password!>
2. Select the login button
3. Open MongoDB compass
   * Click on the database titled ‘IR’
   * Go to the collection ‘users’ under the database ‘IR’
   * Go to the search bar; type
     1. <{ ‘email’ = ‘[jimbo@gmail.com](mailto:jimbo@gmail.com)’ }>
   * Verify that the ‘password’ field is hashed, i.e it does not equal password!

# Sprint 3

1. As a customer of a booking service, I want a way to be able to make an account so that I can save all of my bookings.

Scenario:

1. Start the app; select ‘Join’ on the Navigation Bar; type

* First Name = <Jim>
* Last Name = <Bo>
* E-mail = <jimbo@gmail.com>
* Password = <password>
* Press the ‘Join’ button to sign up

1. Open MongoDB compass

* Connect to the database using our connection string
  + mongodb+srv://wilson2k:<4468797>@cluster0.7inov.mongodb.net/test
* Click on the database titled ‘IR’
* Go to the collection ‘users’ under the database ‘IR’
* Go to the search bar; type
  + <{ ‘email’ = ‘[jimbo@gmail.com](mailto:jimbo@gmail.com)’ }>
* Verify that the new user account is there with correct information

1. User should be automatically navigated to the ‘Sign In’ page; type

* E-mail = <[jimbo@gmail.com](mailto:jimbo@gmail.com)>
* Password = <password>
* completed Endpoint testing steps here, refer to Endpoint testing above

1. User should be automatically navigated to the ‘Home’ page
2. As a user of an island reservation service, I want a homepage to be able to see all of my account information including the bookings that I’ve made.

Scenario:

1. Start the app; select ‘Sign in’ on the Navigation Bar; type

* user should be automatically navigated to the ‘Sign In’ page; type
* E-mail = <[jimbo@gmail.com](mailto:jimbo@gmail.com)>
* Password = <password>

1. User should see the ‘Account’ Page (Also referred to as the user home page) and should see “Welcome, Jim Bo!” at the top; And cards which are titled
   1. “Book an Island”
   2. “Your Balance” with the user’s current balance displayed
   3. “Manage Your Islands”
   4. “Review Your Trip”
   5. Sections for “Active Reservations” and “Past Reservations”
2. Click ‘Add credit’ button under the ‘Your Balance’ card, user will be navigated to a form to add credit; type
   1. First Name = <Jim>
   2. Last Name = <Bo>
   3. Credit Card Number = <1234 1234 1234 1234>
   4. Expiration Date = <Click the calendar icon, choose current month>
   5. CVC Number = <123>
   6. Amount (USD) = <100>
   7. Click ‘Add to Balance’, and the user will be navigated to the user home page, which displays their current balance = old balance + new amount under ‘Your Balance’ in bold text.
3. As a person who wants to reserve an island, I want a way to be able to see a list of available islands so I can reserve them.

Scenario:

1. Start the app; select ‘Gallery’ on the Navigation Bar
2. Verify that the information displayed on the gallery page matches the island objects
   * Open MongoDB Compass
   * Click on ‘New Connection’; type
     + URI = <mongodb+srv://wilson2k:<4468797>@cluster0.7inov.mongodb.net/test>
   * Click on the database titled ‘IR’
   * Click on the collection titled ‘islands’
   * Verify that the information matches what you see on the gallery page
3. As a user, I want to be able to see an About page describing the product I am using so that I understand all the features of the product.

Scenario:

1. Start the app; select ‘About’ on the Navigation Bar
2. User should see a page with a description of the app/product.

# Sprint 4

1. As a user, I want to be able to book islands so I have a place to host my events or vacations.

Scenario:

1. Start the app; select ‘Sign in’ on the Navigation Bar; type

* user should be automatically navigated to the ‘Sign In’ page; type
* E-mail = <[jimbo@gmail.com](mailto:jimbo@gmail.com)>
* Password = <password>

1. User should see the ‘Account’ Page (Also referred to as the user home page) and should see “Welcome, Jim Bo!” and cards which are titled “Book an Island”, “Your Balance” with the user’s current balance displayed, “Manage Your Islands”, “Review Your Trip” and a section for “Active Reservations” and “Past Reservations.”
2. Select ‘Gallery’ on the Navigation Bar OR select ‘Reserve’ Button under ‘Book an Island’ card on the ‘Account’ Page. In both scenarios, the user is taken to the ‘Gallery’ page.

* User should see cards of different islands (uploaded by other users) on the ‘Gallery’ page, along with the Island name, ‘Rating’, ‘Area’, ‘Price’, and a button to reserve the island called ‘Reserve Island’.
* Select the “Reserve Island” button under the island the user wishes to reserve
* User should see a ‘Reserve’ page with ‘Reserve <Island name>’, the ‘Rating’ of the Island, ‘Details’, and a form to input ‘Start Date’ and ‘End Date’ of the Reservation.
* User should see a pop-up of information below the Reservation once entering the reservation dates which contain: ‘Total Days’, ‘Check in’, ‘Check out’, ‘Total Price’ and a Button ‘Reserve Island’

1. Select ‘Reserve Island’ button

* user should be navigated to the ‘Account’ page if successfully booked the dates and paid the fee.
  + User can see that their balance went down
  + User should see the new reservation as a card on the homepage under ‘Active Reservations’ with the name of the island, ‘Start Date’ (start date of reservation), ‘End Date’ (end date of reservation), ‘Date Reserved’ (the date the reservation was made), ‘Amount Paid’ (the price in US dollars that was paid for the reservation), and a photo of the reserved island.
* user should be shown an error message if one of the events occurred:
  + balance was not sufficient to reserve the island
  + user has a reservation conflicting with the dates
  + island is already booked for some or all of the dates

1. As a person who wants to reserve an island, I want to be able to sort the list of available islands by different criteria (like price, land size, or rating) so I can easily find the island that is best for me.

Scenario:

1. Start the app; Select ‘Gallery’ on the Navigation Bar
2. User should see three buttons at the top labeled
   * “Land Size”
   * “Price”
   * “Rating”
3. Test Land Size Filter
   * Press “Land Size”
   * Island’s should be sorted top to bottom by smallest land size first
   * Press “Land Size” again
   * Island’s should be sorted top to bottom by largest land size first
4. Test Price Filter
   * Press “Price”
   * Island’s should be sorted top to bottom by smallest price first
   * Press “Price” again
   * Island’s should be sorted top to bottom by largest price first
5. Test Rating Filter
   * Press “Rating”
   * Island’s should be sorted top to bottom by smallest rating first
   * Press “Rating” again
   * Island’s should be sorted top to bottom by largest rating first
6. Testing the search bar
   * Note the name of one island that catches your eye
     + Click on the search bar
     + Start typing the name of the island
     + Gallery page listing should start narrowing down as you type until you see the island as the only listing
7. As a user, I want a settings page so I can update my personal information.

Scenario:

1. Start the app; select ‘Sign in’ on the Navigation Bar; type

* user should be automatically navigated to the ‘Sign In’ page; type
* E-mail = <[jimbo@gmail.com](mailto:jimbo@gmail.com)>
* Password = <password>

1. User should see the ‘Account’ Page (Also referred to as the user home page) and should see “Welcome, Jim Bo!” and cards which are titled “Book an Island”, “Your Balance” with the user’s current balance displayed, “Manage Your Islands”, “Review Your Trip” and a section for “Active Reservations” and “Past Reservations.”
2. Select ‘Settings’ button under ‘Account Settings’ card on the ‘Account’ Page.
3. User should see a new page containing a form with ‘First Name’, ‘Last Name’, ‘Password’, with the user’s first name, last name displayed in the form; type
   * First Name = Jimbob
   * Last Name = Junior
4. Press ‘Submit’ on the form
5. Press ‘My Account’ on the Navigation Bar
6. User should see “Welcome, Jimbob Junior!” at the top of the user home page
7. As a user, I want to see a logo on the website I am using so that I know which website I am using and so that I feel as though it is a legitimate service.

Scenario:

1. Start the app;
2. User should see the ‘Home’ Page and can view the logo in the center.
3. User should also see a smaller logo on the top left corner of the Navigation bar, which is accessible from all pages.
4. Navigate to all pages of the website.
5. Verify that you can see the logo on every page on the Navigation bar.
6. As a user, I want to be able to view the islands I’ve uploaded and edit their information (my owned islands) for others to reserve.

Scenario:

1. Start the app; select ‘Sign in’ on the Navigation Bar; type

* user should be automatically navigated to the ‘Sign In’ page; type
* E-mail = <[jimbo@gmail.com](mailto:jimbo@gmail.com)>
* Password = <password>

1. User should see the ‘Account’ Page (Also referred to as the user home page) and should see “Welcome, Jim Bo!” and cards which are titled “Book an Island”, “Your Balance” with the user’s current balance displayed, “Manage Your Islands”, “Review Your Trip” and a section for “Active Reservations” and “Past Reservations.”
2. Select the ‘Manage’ button under the ‘Manage Your Islands’ card.

* If the user has not yet uploaded an island, they will see only one card titled “Add a New Island”; click ‘Add Island’ button; type
  + Island Name = <Jimbo Island>
  + Location = <Jimbo Land>
  + Details = <Jimbo’s Island>
  + Price = <100>
  + Latitude = <30>
  + Longitude = <-100>
  + Choose File = <Choose an image from your local machine>
  + User will automatically navigate to ‘Manage Islands’ page upon clicking ‘Upload’
* If the user has previously uploaded islands, they will see one card to “Add a New Island” (described above) and one card per (owned) island which displays: Island name, an image they uploaded of the island, a description “Details” of the island, price per night, “Location”, “Land Size”, “Lat/Long”, “Current Rating”, and a button ‘Edit Details’.
* Click ‘Edit Details’, the user should see a form. On the form is the information that the user had previously entered for the island.
  + click ‘Edit Details’ button
  + User should see a form; type
    - Island Name = <Jimbob’s Island 1>
    - Location = <Jimbob’s Land 1>
    - Details = <Jimbob’s Island Details>
    - Price = <1000>
    - Latitude = <30.5>
    - Longitude = <-100.5>
    - Image = <choose a file>
  + The User can change one or multiple items at once.
  + Upon submit, the user will be navigated back to the ‘Manage Islands’ page.