

Online Concept Exchange: Test Cases

Test Case #1: Database setup executes properly

Severity: Critical

This is critical because the site needs to always be able to connect to the database to get and retrieve information. Failure to do so can result in interactive and stored portions of the site to cripple in functionality.

Instructions:

1. Navigate to the test directory and run the pytest command from the console.
2. Read the command line and verify that the test cases all passed.

Expected Result:

Relevant portions of the site are responsive and all console-based test cases pass

Test Case #2: Database methods create users and update their information

Severity: Important

This is important but not critical, as user accounts and information are not essential in order to interact with the site. If this component fails, the site can still function in its ability to communicate information regarding The Human Domino Effect.

Instructions:

1. Run the relevant tests by navigating the test directory and running pytest from the console with the -k flag to select tests matching a pattern that involves user creation and updates
2. Verify that the tests all passed by checking their status in the command line.

Expected Result:

All console test cases pass.

```

def test_get_user_by_email(app, setup_database):
    with app.app_context():
        assert 'test.user@email.com' in get_user_by_email('test.user@email.com').values()

def test_update_user_username(app, setup_database):
    with app.app_context():
        u = User(**get_user_by_email('test.user@email.com'))
        update_user_username(u, 'NewUsername')
        assert 'NewUsername' in get_user_by_email('test.user@email.com').values()

def test_update_user_email(app, setup_database):
    with app.app_context():
        u = User(**get_user_by_email('test.user@email.com'))
        update_user_email(u, 'new.email@tsest.com')
        assert 'new.email@tsest.com' in get_user_by_email('new.email@tsest.com').values()

def test_update_user_password(app, setup_database, setup_password_hasher):
    with app.app_context():
        u = User(**get_user_by_email('new.email@tsest.com'))
        update_user_password(u, 'pass2')
        assert setup_password_hasher.verify(get_user_by_email('new.email@tsest.com')['password'], 'pass2')

```

Test Case #3: Navbar resizing and correctly routes to each page

Severity: Critical

This is critical because it is used to navigate throughout the website. Once you are on block pages, it is the only way to navigate to other pages on the site. It is also essential that it is on all pages of the website.

Instructions:

1. Pull from the dev branch of our GitHub repository
2. Run flask by “flask run” on command line
3. Type <http://localhost:5000/> in a browser and the website should appear
4. The navbar should appear on top, as you scroll down the navbar should stay at the top
5. Clicking on the items of the navbar should route to the correct completed pages
6. The dropdown menu of the How to Live Building Blocks should show the blocks when clicked
7. Resize the page and the navbar should eventually become an icon that you can click on and show the items of the navbar. The dropdown menu should continue to work

Expected Result:

Navbar should be at the top of all pages and stick to the top as the user scrolls down:



Home How to Live Building Blocks ▾ Concept Exchange Login Contact

After clicking on the dropdown menu:



Home How to Live Building Blocks ▾ Concept Exchange Login Contact



Block #8:

- Block 1: Healthy Place to Live and Learn
- Block 2: Energy for Concentration
- Block 3: Stability
- Block 4: Practiced Perception
- Block 5: Developed Abilities
- Block 6: Responsibility
- Block 7: Discernment
- Block 8: Resilience
- Block 9: Functional Relationships

ending the experiences
and lessons involved in
Self-Control and Purpose



As the screen gets smaller and if on a mobile device, the navbar should look like:



After clicking on the hamburger icon when the window is small, it should have the dropdown menu open:



Home

How to Live Building Blocks ▾

- Block 1: Healthy Place to Live and Learn
- Block 2: Energy for Concentration
- Block 3: Stability
- Block 4: Practiced Perception
- Block 5: Developed Abilities
- Block 6: Responsibility
- Block 7: Discernment
- Block 8: Resilience
- Block 9: Functional Relationships

Concept Exchange

Login

Contact

Test Case #4: Block pages render with a consistent style and navbar

Severity: Critical

This test case is critical because displaying readable content for readers is the entire goal of the project.

Instructions:

1. Click on a block page from the navbar
2. Click on another block page from the navbar
3. Navigate to the home page again
4. Click on a block page from the interactive game board
5. Click on another block page from the interactive game board

Expected Result:

On each page that is rendered, the margins should be the same, the content should be the expected content for that block, images should resize as the viewport changes size, certain words should be decorated with that block's color, and the navbar should still be accessible from the top of the page.

Example of above requirements:

The screenshot shows the 'Block #3: Steel Stability' page. At the top, there is a navigation bar with links for Home, How to Live Building Blocks, Concept Exchange, Login, and Contact. Below the navigation bar, the title 'Block #3: Steel Stability' is displayed. The main content features a central image of a building block labeled 'Steel Stability' composed of 'Carbon care & Iron Safety'. To the left of the image is a diagram of a building block with various colored sections labeled 'Health', 'Safety', 'Care', 'Happiness', and 'Security'. A callout bubble points from the text 'Blending the experiences and lessons involved in Care and Safety builds stronger skills and character traits than teaching them as separate concepts.' to the central image. Below the image, there is a paragraph about the combination of care and safety, followed by several smaller paragraphs providing more details. At the bottom, there are three tabs: 'Carbon Care', 'Steel Stability', and 'Iron Safety'.

Test Case #5: Interactive Game Board**Severity:** Minor

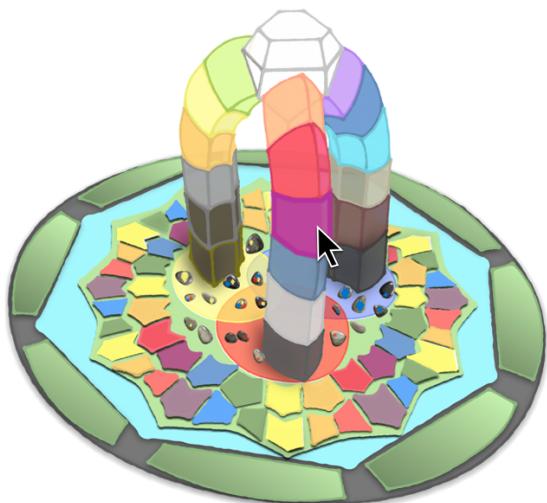
On the home page, there is an illustration of The Human Domino Effect game board present. When you hover over one of the blocks, it is highlighted and clickable. When highlighted, an image and text appear to tell the visitor where they'll be going. Upon clicking, the visitor will be taken to their desired block page. This is minor because the functionality is eclipsed by the navigation bar, which is present on all pages, not just the home page.

Instructions:

1. Go to The Human Domino Effect home page via URL or clicking the logo located on the navigation bar
2. Hover over one of the blocks illustrated and notice the highlighting and message indicating where you'll be taken
3. Click on your desired block to be navigated to the corresponding block page
4. Return to the homepage to click on any other desired block

Expected Result:

Hovering over each block should highlight the block and display its corresponding message, letting the website visitor know where they'll be taken to. When they click on the block, they'll be navigated to said block.



Hezekiah invites you to learn more about [Arts: Engineering, Tools, and Architecture](#) in [Arching Block 2](#)

Test Case #6: Home Page Responds to Small, Medium, and Large Screen Breakpoints for Mobile Friendliness

Severity: Important

We wanted to ensure that users can access the website on any device and that the content is always visible regardless of its window's size.

Instructions:

1. Begin at the large breakpoint, which is above 992px, to view the layout on large devices
2. Reduce the window's size until it is between 768px and 992px to view the layout on medium-sized devices
3. Reduce the window's size until it is under 768px to see the mobile-friendly view

Expected Result:

At the large, middle, and mobile breakpoints, the page elements should resize and realign. Each size change will occur at the breakpoint, so the page will change format three times as it is shrunk or expanded.

See page below for birds-eye view of how the columns, alignment, and sizing should change at each of the breakpoints (from left-to-right: large, then medium, then mobile):

