Smart Cultural Precinct Web Development Documentation

📄 Introduction

This document explains the purpose, functions and some history about a website created for the Smart Cultural Precinct initiative with the Institute for Sustainable Urbanization in Hong Kong. This website is designed for public, business, and administrative use. Through the Sign-In Page, businesses and administrators have access to additional pages. Administrators are able to create and publicize future community events, along with accept or deny business applications to participate in community events or publicize personal events. Businesses will be able to request participation in community events. All users will be able to view published future events, an accessibility map of the Cultural Triangle, a map containing the best route to get to a location, a list of Hong Kong NGOs and local businesses, and ways of contacting UDP and ISU. Each page will contain a Navigation bar on the top of the screen and a footer bar at the bottom of the page to access the other pages and log into an account.

All work on the digital tool has been done through Webflow through a premium account. On Webflow, multiple people are can edit and update the website at the same time if given the account right. People can edit any text on the website through the "Design" mode by double clicking the text they want to change. Any edits can be finalized by hitting the Enter key on the keyboard or by clicking off of the edited area. Here is a video demonstration of the website:

🔺 Website Demo (1).mp4

📋 Some history

Previous groups made a mock up of a possible app. UDP has reached out to developers on quotes which were all more than they could afford. We decided to pursue makign a website instead of an app but took inspiration from features shown in the mock up app.

🔗 Constraints

There is not a current budget to hire a developer to create and maintain an app. Members of our group had more experience with creating a website and because of the time limit of only 7 weeks we decided to make a website instead of an app.

🏠 Home Page Documentation

The Home Page is the first page that users will see when going to the website and it is also accessible through clicking the SCP logo in the top left hand corner of the page. Up top, there is a Navigation Bar which is present on every page, allowing for easy navigation between the other pages like Events, Map, Community, Sign In Page, etc. In the container blow it, there is a slider that shows images of the precinct area. There is a Contact Us button in the middle of the page which redirects User to Contact Us page. Further down there is a Community Engagement section, show casing different Tweets related to the event that were chosen to be showcased. Furtherdown, there are more images of events which the Administrator can change. Further down, there is a "Check out Events" and "Check out Map" section that, when clicked, redircts user to desired page from the front page. At the bottom of the page, there is a footer with different navigation links to different pages. In addition, there is a section that displays social media posts. This section is static (not functional) but serves as inspiration.

📅 Events Page Documentation

After administrators publish an event, the event details appear on the Events page, which is available by clicking the "Events" tab in the Navigation bar on the top of the screen, clicking the designated image on the Home Screen, or by clicking the "Events" button in the footer section of the opened page. Published events will appear with an image or flyer, the Event title, Event date and time, Event location, and an option to see more. If clicked upon, the "See More" button will show the user a deeper description of what the event will entail, along with the businesses that will be present at the event. The page will also contain a list of past events. If clicked upon, users will have the option to provide feedback on what they liked and disliked about the event.

🗺️ Map Page Documentation

Our map page can be accessed through the "Map" tab on the Navigation bar, the "Map" button in the footer bar, or the Cultural Triangle image on the Home Screen. On this page, people can view a more detailed map of the Cultural Triangle and use an interactive map that describes street history and accessible routes to specific locations within the Triangle. There are two boxes that represent start destination and end destination. Upon typing desired location, the Google Maps Location API will will automatically display a list of location options which can be selected. Then, when submit is pressed, the shorted path is visually displayed. There is an accessibility toggle which, when clicked, will automatically reroute based of our heuristic which is located on the Github. Note: Unlike all other website pages, visual changes to this page can be made through the "Design" mode of Webflow, but any changes to the map must be made through Java code.

🧑‍🤝‍🧑 Local Businesses Page Documentation

The Community Page serves as a resource to learn and contact other organizations, including a number of NGOs, the Hong Kong Transportation Department, and the Hong Kong Police and Fire Department forces. There are buttons leading to each organization's website and are organized based on whether they are a non-profit organization or an important resource when planning and hosting large events. This page is accessible by clicking the Community tab on the Navigation bar at the top of the screen or clicking the "Community" button in the footer bar on the bottom of the opened page.

📚 Share Your Story Page Documentation

The Share Your Story Page serves as a place for people to share different stories, facts, or history about the Cultural Triangle. By writing a response or uploading an image of the Triangle, users will have the option to anonymously share their story and even have their story shared on the Home Page. This page is accessible by clicking the Share Your Story tab in the Navigation bar, clicking the "Share Your Story" button in the footer, or by clicking the writing next to the shared stories on the Home Page.

👋 About Us Page Documentation

The About Us Page is dedicated to providing the mission goals of ISU and also includes a list of the corporation's team members. The page is accessible by clicking the About Us tab located on the Navigation bar in the top of the screen, clicking the "More About Us" button on the Home Screen, or clicking the "About" button in the footer bar on the bottom of the opened page.

✉️ Contact Us Page Documentation

For any inquiries, users have access to the Contact page by clicking on the "Contact Us" button in the Navigation bar on the top of the screen, clicking the "Contact Us" button on the Home Screen, or clicking the "Contact" button in the footer bar on the bottom of the opened page. On the page, the SCP email and address is given for reference, and the user is able to fill in their own name, email, and message they wish to share.

📊 Sign-In Page Documentation

The Sign-In Page brings you to a log-in page. If one doesn't have an account, they could click Create Account and they will be able to do so. They can pick whether they are a business or administration (which will require approval from another administrator). Once an administrator is logged in, they will reach a page where they can 1) create an event 2) view requests from businesses, and 3) see potential sponsors, government branches, etc. In the Create and Event Page, they will be prompted with information such as Name, Short Description, Date, Long Description, RSVP Link, and Image. Once filled, a panel of the current events store will be updated for everyone to see. They can also review requests from businesses on the second page, choosing whether to approve or deny if a business can be a part of the event. On the third page, the admin can see a list of important sponsors, departments that need to be contacted, and dates things need to be done.

📈 Administrative Page Documentation

Once logged in, administrators are led to a page where they can view internal reminders of upcoming events and actions needed for future events. They are also able to click two buttons that would lead them to create and publish an event's details or review business and sponsor requests for participating in future events. Publishing an event includes sharing the event title, date and time, location, RSVP link, and description. Once published, the event will be shared with business users for a week for businesses to request to participate. Accepting or denying business and sponsor requests provides the administrator the ability to control the activity options for an event. After a week of applications and determining which businesses will participate, the event will be shared to all users on the Events page.

Note: This page is only accessible to users that are logged in and classified as administrators.

👥 Business Page Documentation

Once logged in, businesses are led to a page where they can view internal reminders of actions needed and the time left to request participate for each event. They also get to communicate live with the SCP and review any community feedback. They are also able to click buttons to lead them to request to register for participation in upcoming community events for a week or request to be added to the Community Page.

Design and Layout

- The dashboard is divided into two main sections: the sidebar navigation menu and the main content area.
- **Sidebar Navigation Menu**:
  - **Logo:** Top left corner, likely serves as a link to the dashboard or home page.
  - **Section Titles**: "START HERE" and "COMPONENTS" organize the navigation menu into logical groups.
  - **Navigation Items**: Icons and text indicate interactive elements that lead to different parts of the portal, such as "Home," "Participate in Event," and "Users Management."
- **Main Content Area**:
  - **Welcome Message**: "Welcome Business!" personalized greeting.
  - **Metric Cards**: Three cards display key business metrics—Reports, Analytics, and Money.
    - **Reports Card**: Shows a line graph depicting some form of financial reports with an upward trend and a button labeled "Get Reports."
    - **Analytics Card**: Presents a bar graph illustrating user or visit analytics, with a change percentage.
    - **Money Card**: A gauge or semi-circle chart showing a monetary value with a subtitle.
- **Participate in an Event**

- **Purpose:** This form allows businesses to express their interest in participating in an event by providing necessary details about their business.
- **Fields and Descriptions**
  - **Business Name**: The official name of the business.
  - **Email**: Contact email address for the business.
  - **Phone Number**: Primary contact number.
  - **Physical Address**: The location of the business.
  - **Website and Social Media Links**: URLs to the business's online presence.
  - **About Us**: A brief description of the business, its mission, values, and offerings.
  - **History (Recommended)**: An optional section to provide a brief history of the business, including any milestones.
  - **Business Type**: A dropdown to select the type of business from predefined options.
  - **RSVP Link**: A field to provide a link for RSVP purposes.
  - **Additional Information and Requests**: A text area for any extra information the business wishes to provide.
  - **Promotional Pamphlet**: An option to upload a file, such as a pamphlet or brochure.

- **Messaging SCP**
  - **Purpose:** This feature allows users to send a message directly to the SCP (System Control Panel) for inquiries or support.
  - **Fields and Functionality:**
    - **Message Box**: A simple text area where users can type their message.
    - **Submit Button**: Sends the message to the SCP and typically triggers an email notification or a ticket in the support system.

- **Review Community Feedback**
  - **Purpose**: Displays feedback from the community, allowing for an overview of customer satisfaction and areas for improvement.
  - **Components:**
    - Table: A list of feedback entries with columns for Name, Review (Stars), Description of Review, and Timestamp.
    - Export to CSV: A functionality that allows the export of feedback data into a CSV file for analysis or record-keeping.
  - **Functionality**
    - Each feedback entry includes a star rating and a timestamp for when the review was left.
    - The "Export to CSV" button should generate a downloadable CSV file with the feedback data.

👣 Next steps

- Walkability data should be put into database and stored. Then, database needs to be configured for the website.
- There needs to be a aggregator that accumulates data from Instagram, twitter, pictures, etc for the community engagement feature.
- Ability to change website view to larger text for those with eye sight disabilities
- Ability to change website view into English, Traditional Chinese, or Simplified Chinese for all of Hong Kong to access
- Ability to update accessibility routes on map according to street construction
- Integration of current website into the main ISU website and publishing a mobile app with all website features to expand audience

Business Access

- Business option to request to be added to the Community Page
  - The Community Page can be updated every other week, depending on business interest in being advertised on the site
- Business option to see and request participation in events for a week

Administrative Access

- Administrative option to allow or deny story posts on the Home Page