DMC105

Design for User Interaction -CA4

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| Time | Practical classes 1 and 2 |
| Week 1  (31 Oct – 4 Nov) | Present in class:   * Final Site Map * Idea addresses industry needs with solid research data |
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|  | It's now possible to replace manual work with an automatic system to record information and safeguard it using technology because the nation is digitizing and the majority of organizations and businesses rely on digital platforms. Since there is no website that saves the Gewog information, the administrator of the Gewog had to physically enter the data on the book. It is also challenging to evaluate and update the information on time. In our recent conversation with Rinchen Norbu (Gup of Jurmey Gewog) he said that the gewog officials should use an online platform to provide a service which helps them to make a whole record in a database instead of physically maintained books. Therefore, Gewog Management System will make work simple and dependable in order to boost the exposure and accessibility of the information. On the other hand, it is useful for obtaining any online permission from the Gup office. |
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| Week 2 (7 Nov – 11 Nov) | Present in class:   * Technical Application:   + Tech Scalability   As of now, the admin has to explicitly see whether the data given by the users are valid or not, specifically the marriage certificate; in the future, it can be used with machine learning to identify the marriage certificate.  Technology used  Front-End Development   1. Html   HTML is the standard mark-up language for creating Web pages. HTML describes the structure of a Web page. HTML consists of a series of elements. HTML elements tell the browser how to display the content.  We are using html to build the basic structure of the template.   1. CSS   CSS (Cascading Style Sheets) is used to style and layout web pages — for example, to alter the font, colour, size, and spacing of your content, split it into multiple columns, or add animations and other decorative features.  We are using the CSS to beautify our website for proper user interaction and user convenience while using our website.   1. JavaScript   JavaScript is used by programmers across the world to create dynamic and interactive web content like applications and browsers.  We are using JavaScript to make user interaction such as when a button is clicked and a message pops up.   1. Bootstrap   Bootstrap is a free, open source front-end development framework for the creation of websites and web apps. Designed to enable responsive development of mobile-first websites, Bootstrap provides a collection of syntax for template designs.  We Used bootstrap as it comes with in build class which provides responsive, interactive and appealing to the users.  Back-End Development   1. Django   Django is a free and open-source, Python-based web framework that follows the model–template–views architectural pattern.  We used Django to be the backend to store the data that are inserted by the users.   1. We are using Heroku to deploy our application which can be accessed from anywhere in the world once deployed.   Limitations  We are using an SQLite server for our system which if millions and millions of users use it, will create a server shutdown, for that we are planning to scale up the database by using MongoDB.   * + Usefulness of Tech Functions   Gewog Management system will serve as a platform for the user to store their census-related data, and will also allow users to insert data of their child and also request for the pass or royalty, with the use of Django and SQLite server.   * + Tech Originality   We are using the existing Django framework to create a stable system for users to register a census for a child and request a pass for timber, and stone. Till now users have been personally going to the gewog office to request all the services.   * + Tech Relates to Industry   Gewog Management system is a hospitality industry; we are using the Django framework to build the system.  In the future, we are planning that all the services that are provided by the gewog management should be provided through online services through our system. Moreover, we are going to integrate AI and ML to make the system more automated. In terms of granting permission, if the submitted data was valid then the AI and ML algorithms should automatically grant permission. |
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| Week 3  (14 Nov – 18 Nov | Present in class:   * Visual organisation & Appeal:   + Mood board   **Mood Board**  **Gewog Management System**   * + Design Concept   What will the product do?  The Gewog Management System will provide a useful platform for the Jurmey Gewog people and the administration's staff. Where people can request a pass, register a new born child, and record personal information. Moreover, Staff from Concern Gewog will keep track of the private data supplied by each individual, authorize a census of the newborn, and issue a pass if necessary.  Who is the product for?  The Gewog Management system primarily benefits the Jurmey population and the Gewog administration. People won't have to struggle to contact concerned gewog staff members in order to appeal the pass, submit their information, and register their new-born child, as they did in the past. This website will significantly reduce human work. The gewog staff will also find it simpler to track each person's data throughout the course of a year as a result.   * + Color psychology for the products   From color psychology, it shows that color yellow is linked to happiness, so in our Gewog Management System website color concept, we decided to use this color to create a happy and positive energy and to make people happier.  Green is a strong hue associated with security, and in our Gewog management system, it involves a lot of security functionality, so we would like to adopt this color to give our users feel confident and safe that their personal information is well protected and users feel safe using it.  Orange is characterized as an energizing color and as making up feelings of excitement. The Gewog management system is a new beginning for people to make things operate with minimal human effort as there is now no website to administer Gewog automatically. |
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| Week 4 | Prototype for our group contains 5 pages that include Home page, Personal Information Register page, Child Census Registration page, pass request page and search result page also the pages are having interaction in which one page can navigate to another one.  Figma Link:  <https://www.figma.com/file/0cTvaO7BF7QIoFNdUbaSy1/Group-5%2FCA4?node-id=0%3A1&t=YQBTRFOsrWleOUXT-0> |