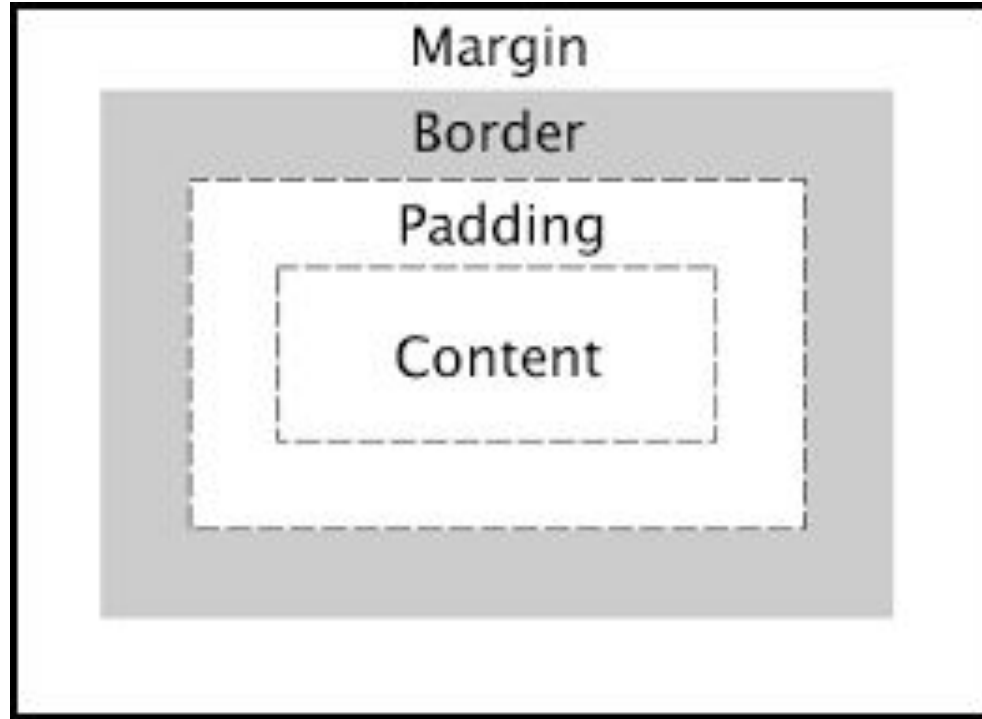# UPLB ICS PeakOne

Enabling Remote Access to UPLB ICS Technical Reports

CSS Box Model

UPLB ICS PeakOne

Enabling Remote Access to UPLB ICS Technical Reports

Background

At the height of the COVID-19 pandemic, establishments worldwide were closed in order to minimize the spread of the virus. This includes schools and universities. During this time, accessing research materials within the university premises became difficult. Although there are many online resources, access to relevant and local materials is essential in research.

PeakOne aims to simplify the search process for technical research papers conducted and submitted in UPLB ICS by providing a clean and simple web application that primarily serves Thesis and Special Problems (SPs) accomplished by ICS students and researchers.

Statement of the Problem

Access to digital educational resources, including research materials, has become essential. However, looking up previous thesis and SPs can only be done by going to the physical library, lacking a convenient remote access option.

Significance

The study introduces a web application that allows remote access to UPLB ICS technical research papers. It emphasizes user-friendly interfaces for efficient searching and management of theses and SPs within UPLB ICS. The application ensures easy maintenance and benefits both researchers and ICS administrators/staff by improving access to previous studies and management tools of current and future research.

Objectives

The main objective of this study is to create a web-based platform that enables remote access to technical research papers of the University of the Philippines Los Baños Institute of Computer Science. Its specific objectives include:

- provide an online and accessible service to look up studies conducted in UPLB ICS;
- create an interface for students to submit their SPs and Thesis; and
- allow ICS faculty members and admin staff to manage and keep track of existing research papers.

Features

OPAC and Search

Accessible by the general public, this allows users to look up technical reports using keywords and search terms.

Favorites

Registered users can add reports to their favorites for easier access of resources relevant to their current research.

View History

Displays a history of viewed technical reports starting from the most recent, allowing users to trace their research process.

Technical Report Submission

Students and researchers alike can submit their research paper to be displayed in the service.

Admin Features

User Management

Admin users have the ability to change users' classification and site permissions.

Technical Report Management

Admin users are able to approve or remove user submitted technical reports. They also have the ability to edit the reports' details such as the title, authors, or abstract.

Methodology

Development Tools

User Survey

As of 27 July 2023, the service has 174 registered users. They were sent an email via Google Forms requesting for feedback on the web application. The users are asked to rate the ease of use of the system. Feature requests and other comments were also taken. Thirty-four (34) responses were recorded.

Survey Results

The survey consists of six items with a scale of 1 to 5, from extremely difficult to extremely easy. The items are:

1. How easy is it to login using your UP Mail account?
2. How easy was looking up relevant research papers?
3. Is it easy to add to your favorite research papers?
4. Do you consider it easy to look for previously viewed research papers?
5. This service is useful to my research process
6. I would recommend this service to my peers

For items 5 and 6, the scale is from strongly disagree to strongly agree.
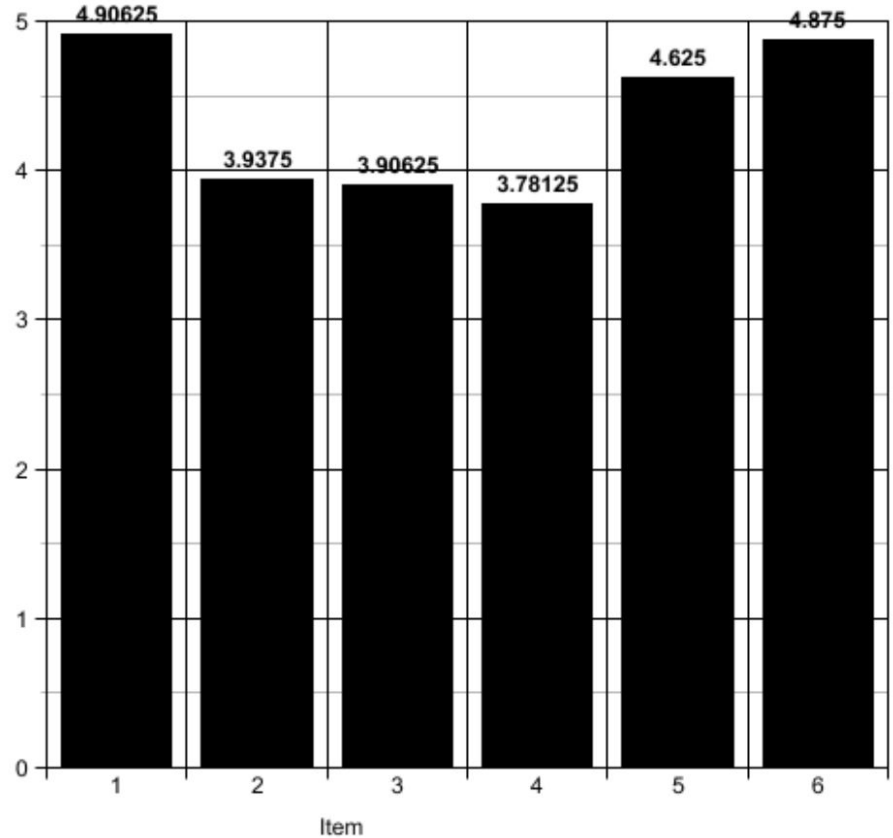
Survey Results

Requested Features:

- Tags and categories

- Filtering and sorting

- Author / Researcher profile

- Way to contact the authors

- Tutorial

- Copy APA or MLA citation format

- Statistics

- Most viewed / featured / suggested papers

Comments, Suggestions, or Feedbacks:

- Improvements on search; including filters and sorting
- Cleaner and better UI; mobile responsive design
- More publications
- Useful and impactful
- "Simple but usable"
- "I hope ICS will permanently use this service"
- "Good Job."
- "Contrats peak-one team!"

Thank you!