

Project Description

MalayanPORTAL is a website for Mapua Malayans, from Junior High School to College, to monitor and transact with various offices and centers of the school. Primarily, the website will focus on the status monitoring of the student user in terms of enrollment, schedules, and tuition balance. Moreover, the website will also contain FAQs and forms of other offices and centers to allow student users to transact with them.

Requirements Summary

MalayanPORTAL is designed to be device-agnostic since it is a website, and this gives wide-access to Mapua Malayans. Therefore, the requirements focus on the web browser version, the general minimum hardware requirements of those browsers, and the special requirements for the usage of the website due to some limitations.

Browser Requirements

- Chrome: Version 90 or later
- Edge: Version 90 or later
- Firefox: Version 88 or later
- Safari: Version 14 or later

Hardware Requirements

- Processor: Dual-core CPU (e.g., Intel Core i3 or equivalent)
- RAM: Minimum 4GB
- Graphics: Integrated graphics (e.g., Intel HD Graphics 4000 or equivalent)
- Storage: At least 10GB free space
- OS: Windows, macOS, Linux-based Operating Systems
- Internet Connection: Stable internet connection

Special Usage Requirements

- Device Form Factor
For now, MalayanPORTAL can only be accessed on browsers in Desktops and Tablets (rendered in desktop mode).
- Usage
Also, the website will only render when the browser window is in full screen as of the moment. There will be an error message when a window is minimized. Specifically, it is optimized for a minimum

resolution of 1920x1080 pixels. But it will still scale on other browser window sizes that have the same aspect ratio to cater to a variety of device screen resolutions.

Prototype Description

Overview

The prototype is a full screen website that contains all the expected pages and their respective contents. Also, it already has basic interactions included, which means that some page elements can be interacted with. For instance, a button can be pressed, and it can redirect a user to another page.

The MalayanPORTAL interface prototype is made using Figma, an industry-standard prototyping service that can be accessed on the web or on native applications.

MalayanPORTAL Figma Link:

<https://www.figma.com/design/1SxTzSzd0RjDUqUwtJ5RbP/MalayanPORTAL?node-id=0-1&t=cXreAQR4LvYOig06-0>

Parts & Usage/Task Flow

Pages: Waiting Screen (Animated) and Login Page



The loading screen will first appear when opening the website to signify that it is loading. Once ready, the login page will appear, wherein the user can input the credentials given from the IT Office. After that, the loading screen will reappear before loading the homepage, which is the Dashboard Page.

Page: Dashboard

The dashboard displays the following information:

- Student Information:** Ken Gyrro P. Acquiat, Student Number: 2022140813, BS Computer Science, S.Y. 2023-2024 3T. Status: Enrolled.
- Classes:** A weekly schedule grid showing classes for Monday through Saturday.

Time	Mon	Tue	Wed	Thu	Fri	Sat
0700AM						
0815AM		CS152		CS152		
0930AM	CS110-2		CS110-2		CS110-2	
1045AM		CS124		CS124		
1200PM	SS036		SS036		SS036	
0115PM	SS086	CS125P	SS086	CS125P	SS086	
0230PM						
0345PM						
0500PM						
0615PM		CS152		CS152		
0730PM						
- Announcements:** Four announcements regarding Mapúa MCM Loyalty Discount, Scholarship Office, Registry Office, and ICCELL, all dated June 07, 2024.
- Tuition:**

Payment Terms	Amount	Status
Downpayment (April)	P 4,000.00	Paid
May 15	P 14,750.00	Due in 8 Days
June 15	P 14,750.00	Due Next Month

The Dashboard Page is the homepage of MalayanPORTAL. It contains a summary of vital information across different pages. There are 4 sections on this page. It includes the Student Information section that shows the student information and enrollment status. There is also a Classes section that shows the weekly schedule of the user. Then, there is an Announcement section, which shows all the announcements displayed in reverse chronological order. Finally, there is a Tuition section that shows the summary of the student tuition status for this term.

Part: Account and Website Info Pop-Up

The Account Pop-Up shows options to Edit Info, Settings, and Logout. The Website Info Pop-Up shows the MalayanPORTAL logo, Terms, Conditions, and Privacy links, and a footer stating Developed By CLK.

The Account Pop-Up allows users to edit their information, access settings, and logout. The Website Info Pop-Up shows the developer and the notices for terms, conditions, and privacy.

CS152 Final Project PART 3.1

Team: CLK

Sisbreño, Cris + Fuego, Louis + Operario, Kim

Page: Courses

Courses

CS152 in 37mins!
Human Computer Interaction
06:15PM | RS12 | Cherry B. Lisondra

Courses

- CS110-2 Discrete Structures 2
Christopher Zach L. Dellosa
Room 405 Academic Building
MS Teams
- CS124 Algorithms & Complexity
Patrick D. Corne
Room 802 Academic Building
MS Teams
- CS125P Architecture & Organization
Patrick D. Corne
Room 802 Academic Building
MS Teams
- CS152 Human Computer Interaction
Cherry B. Lisondra
Room 405 Academic Building
MS Teams
- SS036 Science, Technology, & Society
Joan L. Dela Cruz
Room 405 Academic Building
MS Teams

Classes

Mon	Tue	Wed	Thu	Fri	Sat
0700AM					
0815AM		CS152			
0930AM	CS110-2	CS110-2	CS124	CS110-2	
1045AM		CS124			
1200PM	SS036		SS036		SS036
0118PM	SS066	CS125P	SS066	CS125P	SS066
0230PM					
0345PM					
0500PM					
0615PM	CS152		CS152		
0730PM					

GSA and FGR
Consolidated Schedule & Assessment and Final Grade Report

CSA 1st Term GSA 2nd Term CSA 3rd Term FGR 1st Term FGR 2nd Term FGR 3rd Term

The Courses Page includes the Class section similar to the Dashboard Page. It also includes the Courses section that shows vital information about the courses that a student is enrolled in, which includes units, professor name, class venue and modality, and a summary of the days in a week in which there is a class. Also, there is a GSA and FGR section in order to access and download them. Finally, there is an Alert section that notifies users of their next class and includes essential information about that class.

Page: Tuition

Tuition

School Year 2023-2024 3rd Term

Payment Terms	Amount
Downpayment (April)	P 4,000.00
May 15	P 14,750.00
June 15	P 14,750.00

Ken Cyro P. Acquilat
Student Number: 202240813
BS Computer Science
Regular

1 of 3 Payments Done

Transaction History

Date	%	Year	%	Term	%	Item	%	Amount	%	Balance	%	Channel	%
2022/08/01		2022-2023		1st Term		22.231T Enrollment		P 35,750.00		P 35,750.00		-	
2022/08/01		2022-2023		1st Term		Payment		P 15,750.00		P 20,000.00		GCash	
2022/09/15		2022-2023		1st Term		Payment		P 20,000.00		P 0.00		Cash	
2022/10/01		2022-2023		2nd Term		22.232T Enrollment		P 29,950.00		P 29,950.00		-	
2022/10/01		2022-2023		2nd Term		Payment		P 4,000.00		P 25,950.00		Cash	
2023/01/15		2022-2023		2nd Term		Payment		P 12,975.00		P 12,975.00		GCash	
2023/01/17		2022-2023		2nd Term		Courses		P 3,450.00		P 16,425.00		-	
2023/02/15		2022-2023		2nd Term		Payment		P 16,425.00		P 0.00		Cash	
2023/03/05		2022-2023		3rd Term		22.233T Enrollment		P 30,450.00		P 30,450.00		-	
2023/03/05		2022-2023		3rd Term		Payment		P 4,000.00		P 26,450.00		Cash	
2023/05/15		2022-2023		3rd Term		Payment		P 14,225.00		P 14,225.00		Cash	
2023/05/15		2022-2023		3rd Term		Payment		P 14,225.00		P 0.00		Cash	
2023/07/30		2023-2024		1st Term		23.241T Enrollment		P 37,450.00		P 37,450.00		-	
2023/07/30		2023-2024		1st Term		Payment		P 4,000.00		P 33,450.00		Cash	
2023/09/15		2023-2024		1st Term		Payment		P 16,725.00		P 16,725.00		Cash	
2023/10/15		2023-2024		1st Term		Payment		P 16,725.00		P 0.00		Cash	

Alternative Payment Channels

RCBC Online Transfer

RCBC Fund Transfer

RCBC Over-the-Counter

The Tuition Page includes the Transaction History section to see all of the financial transactions of the student. The is also an Information section that gives instructions for the different alternative payment channels available. Finally, there is a Summary section that shows users of their tuition status and progress on the payments made for the term.

CS152 Final Project PART 3.1

Team: CLK

Sisbreño, Cris + Fuego, Louis + Operario, Kim

Page: Forms

Forms

05:38PM June 07, 2024

Downloadables

- Center for Student Advising and Discipline
Activity Request Form
Form CSAD-001 [Download](#)
- Center for Student Advising and Discipline
Club Renewal Form
Form CSAD-002 [Download](#)
- Center for Learning and Information Resources
Discussion Room Reservation Form
Form CLIR-001 [Download](#)
- Center for Student Advising and Discipline
Cybersearch Area Reservation Form
Form CLIR-002 [Download](#)
- Institutional Facilities Office
Permit to Use Form
Form IFO-001 [Download](#)
- Institutional Facilities Office
Room Reservation Form
Form IFO-002 [Download](#)

This page shows the available forms a user can download from different offices in order to conduct various transactions.

Task Flow: Checking a Subject in the Dashboard Page

Dashboard

Ken Gyrro P. Acquiart
Student Number: 202204013
BS Computer Science, S.Y. 2023-2024 3T

Classes

	Mon	Tue	Wed	Thu	Fri	Sat
0700AM						
0800AM		CS102		CS102		
0900AM	CS102-2		CS101-1		CS102-2	
1000AM		CS101		CS101		
0900PM	CS102		CS101		CS102	
0800PM	CS102	CS101-2	CS101	CS101-2	CS102	
0200PM						
0300PM						
0500PM						
0700PM						

Announcements

- Release MCH Library Statement
- Release MCH Library Statement
- Release MCH Library Statement
- Release MCH Library Statement

Tuition

Payment Terms	Amount
Downpayment (20%)	4,000,000
May 15	14,750,000
June 15	14,750,000

Human Computer Interaction

CS102
Cherry B. Libanila
R02 | 0615PM
CLIR (Learning Library)
May 05, 2024

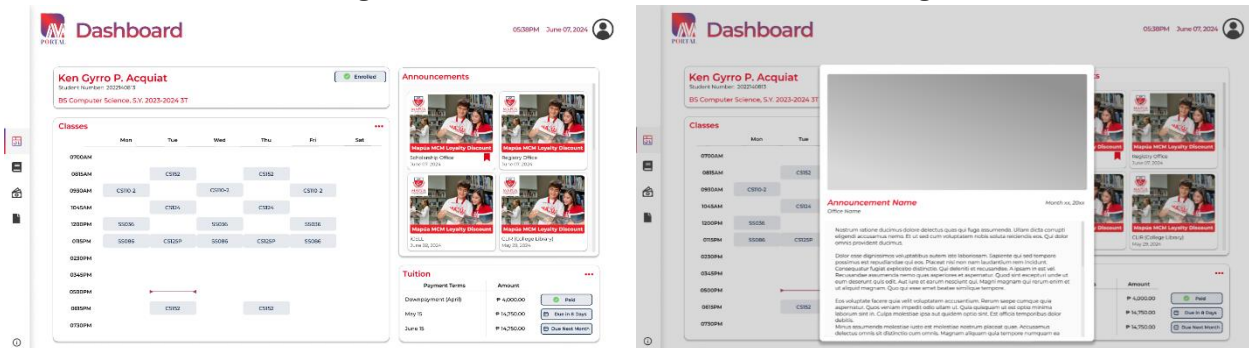
A user can simply click on a subject cell to open a pop up containing more info.

CS152 Final Project PART 3.1

Team: CLK

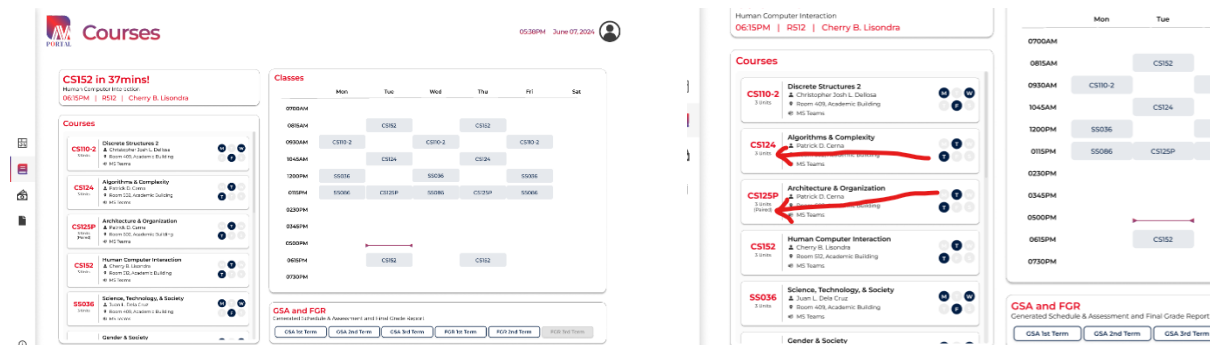
Sisbreño, Cris + Fuego, Louis + Operario, Kim

Task Flow: Reading an Announcement in the Dashboard Page



A user can simply press one of the announcement cards to open a pop-up page in order to read an announcement.

Task Flow: Checking Subject Units on the Courses Page



A user can simply check the units from the Courses section on the page.

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Team: CLK

Sisbreño, Cris + Fuego, Louis + Operario, Kim

Task Flow: Downloading GSA and FGR from the Courses Page

The screenshot shows the 'Classes' section of the Courses page. On the left, there is a sidebar with filters for 'Location', 'City', 'Rating', 'Category', 'Reaction', 'Rating', and 'Society'. The main area displays a class schedule for 'CS152' across various times (0700AM to 0730PM) and days (Mon to Sat). Below the schedule, there is a red-bordered box containing the text 'GSA and FGR' and 'Generated Schedule & Assessment and Final Grade Report'. Below this text are six buttons: 'GSA 1st Term', 'GSA 2nd Term', 'GSA 3rd Term', 'FGR 1st Term', 'FGR 2nd Term', and 'FGR 3rd Term'.

The image shows two side-by-side screenshots of the 'Courses' page. The left screenshot shows the 'Generated Schedule and Assessments' section, which includes a list of courses (CS152-2, CS124, CS125P, CS152, CS156) and a table with columns for 'Term', 'City', and 'Sat'. The right screenshot shows the 'Final Grade Report' section, which includes a list of courses and a table with columns for 'Term', 'City', and 'Sat'. Both screenshots have a red-bordered box around the download buttons for 'GSA' and 'FGR' for each term.

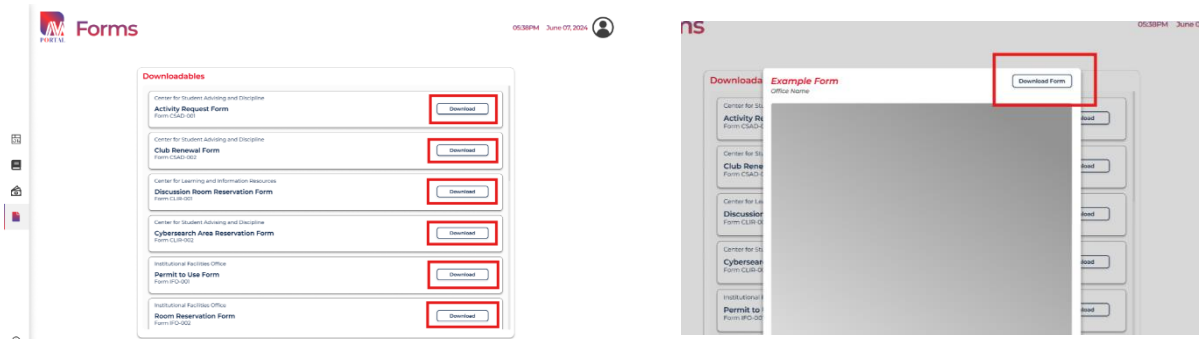
A user can press the buttons corresponding to the desired file and term to show a preview and a download button.

Task Flow: Checking Payment Transactions on the Tuition Page

The screenshot shows the 'Tuition' page. At the top, there is a section for 'School Year 2023-2024 3rd Term' with a table showing 'Payment Terms' and 'Amount'. Below this, there is a 'Transaction History' section with a table showing 'Date', 'Year', 'Term', 'Item', 'Amount', 'Balance', and 'Channel'. The table lists various transactions, including enrollment, payment, and cash. To the right of the Transaction History section, there is a section for 'Alternative Payment Channels' with sub-sections for 'RCBC Online Transfer', 'RCBC Fund Transfer', and 'RCBC Over-the-Counter'.

A user can check all transactions made on the Transaction History section.

Task Flow: Downloading a Document from the Forms Page

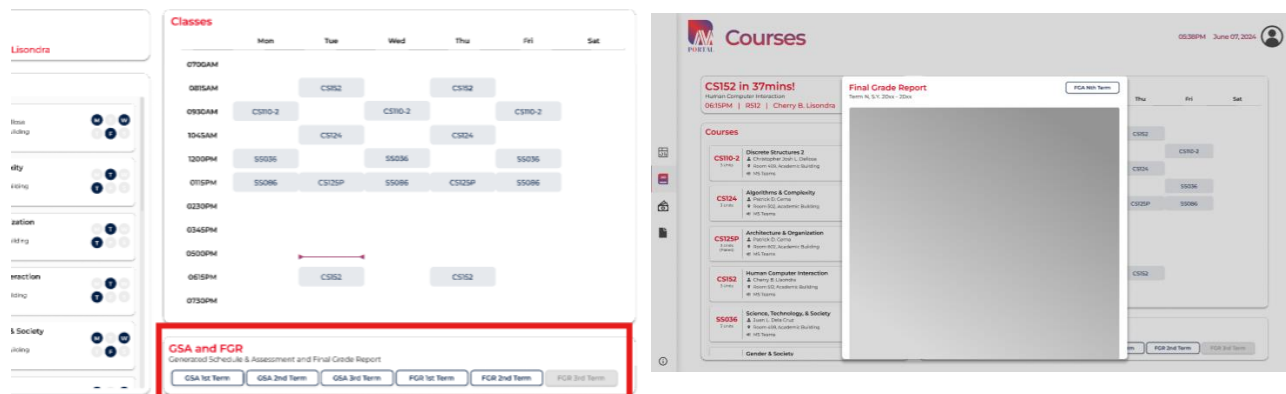


A user can simply look for the desired form on the page. Information about the office, form code, and form name can also be found. Once the desired form is found, the user can press the download button to show a preview to confirm the contents and the actual download button.

Scenario

Suppose Ken is asked by his parents for a copy of his grades on the previous term. First, Ken can simply go to the Courses Page through the navigation bar. Then, he can find the buttons for the available FGR at the lower right of the page. Then, he can just press the button of his desired FGR and a pop up will appear containing a preview and a download button. From there, he can click the download button to download the FGR and then he can send the copy to his parents.

Task Flow: Downloading the FGR from the Courses Page



Rationale

The user experience of MalayanPORTAL for navigation is inspired by the school's Learning Management System, Blackboard Learn. First, the different pages of the website can be accessed from a sidebar. Moreover, stacking or layering windows or pop-ups on top of another gives a sense of locational awareness to the user.

On the user interface, the team decided to pursue modern and clean elements since it is expected that the content will be data heavy. For the color palette, it consists of the standard Mapua red and blue colors, the gray used on Blackboard Learn, white, and the colors of the MalayanPORTAL logo. The colors related to MalayanPORTAL were used in navigational parts of the website, while the remaining colors were used in the body.

Changes to the Requirements

Most of the requirements set for the planning stage were met, specifically on the core features. However, an important requirement that cannot be achieved due to time and prototype development constraints was making the website accessible for browsers of any device. With that, the team decided to only pursue a full screen web browser experience. Once the web browser window is minimized or when the window size is reduced, all of the contents of the website will be replaced by a clean background that has the MalayanPORTAL logo and an instruction to resize the window to full screen in order to use the website once again.

Initial Evaluation Plan

Evaluation Criteria

The evaluation will consist of 2 main criteria, which are the Heuristic Evaluation Criteria and the Usability Criteria.

Heuristic Evaluation

Heuristic Evaluation is a method to inspect the usability of a design. It is rooted from the Heuristic Principles that should be seen as a rule of thumb, rather than a rigid set of rules. It aims to identify issues, generate feedback, and improve the overall design. These principles include:

- Visibility of System Status
- Match Between System and Real World
- User Control and Freedom

- Consistency and Standards
- Error Prevention
- Recognition Rather than Recall
- Flexibility and Efficiency of Use
- Aesthetic and Minimalist Design
- Help Users Recognize, Diagnose, and Recover from Errors
- Help and Documentation

Usability Evaluation

Usability Evaluation are methods to assess a design's user-friendliness and if it achieves its purpose. In the context of MalayanPORTAL, users will mainly evaluate if they can do tasks efficiently and intuitively. The team came up with the following themes for the evaluation

- Effectiveness
- Efficiency
- Learn Ability

Implementation

The team plans to conduct a thorough real-world evaluation. Respondents will interact with the prototype and then they will be given a survey through an online tool, specifically Google Forms. The team aims to conduct evaluation to at least 10 students of Mapua Malayan Colleges Mindanao regardless of level. Moreover, the selection of the correspondents will be random due to availability reasons.