

300693 Web Technologies

## **Assignment 2 : Project Proposal Mubi Website**

Betina Ilas Bondoc      20032089  
Ma. Pia Leona Satuito    20032728

## **1 Website Details**

Website Name: Mubi

URL: <https://300693.cdms.westernsydney.edu.au/~bbondoc/mubi/>

The website is accessible without a username or password.

## **2 Installation**

To install the website into a computer using XAMPP:

1. Download the project zip file
2. Create a folder named “mubi” within the xampp\htdocs
3. Extract the files within the “mubi folder” (index.php must be at the root of the mubi folder)
4. Open phpMyAdmin and create a database called “mubi”
5. Run the SQL script called “mubi.sql” found inside the project zip file on phpMyAdmin
6. The website should now be accessible via <http://localhost/mubi/>

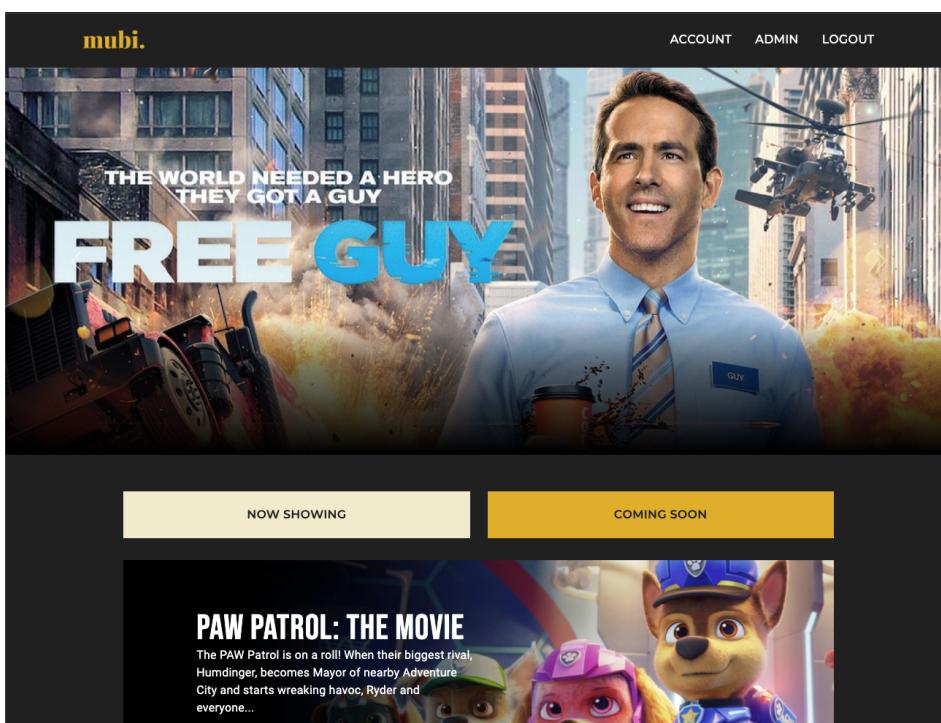
## **3 Purpose of the site**

The main purpose of this project is to provide a simple and easy way for users to book tickets to the Mubi cinema house.

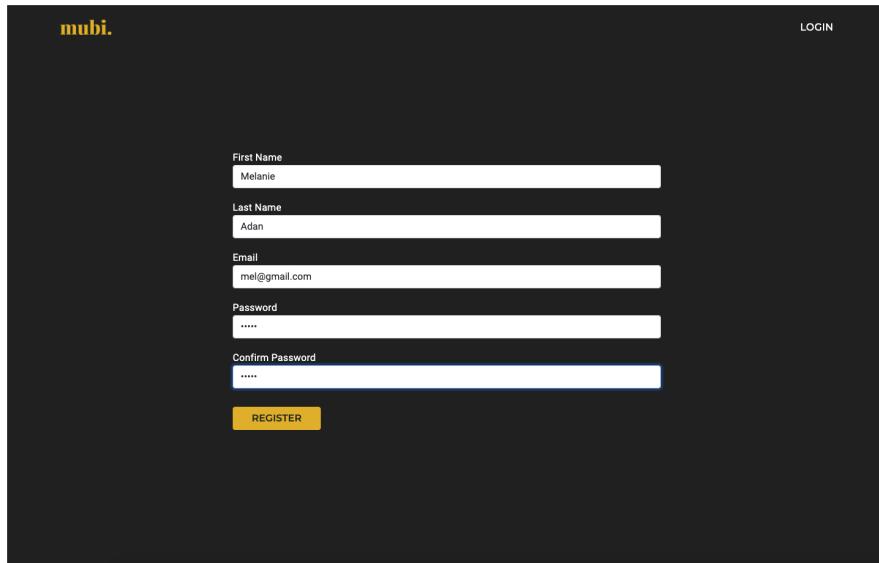
## **4 Site Usage**

The website mainly has three types of access:

1. Guests
  - a. Guests can browse movies



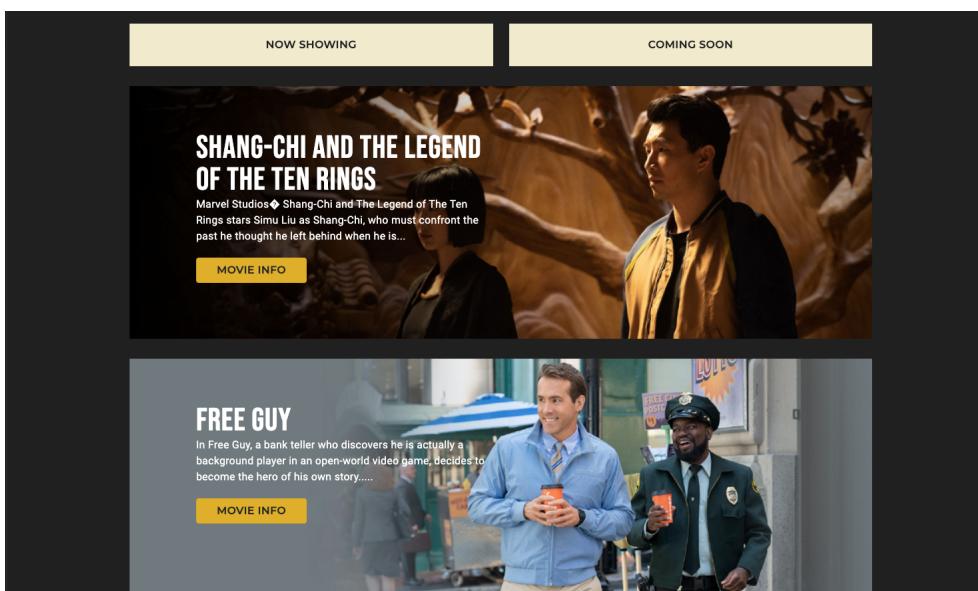
- b. Guests can create an account



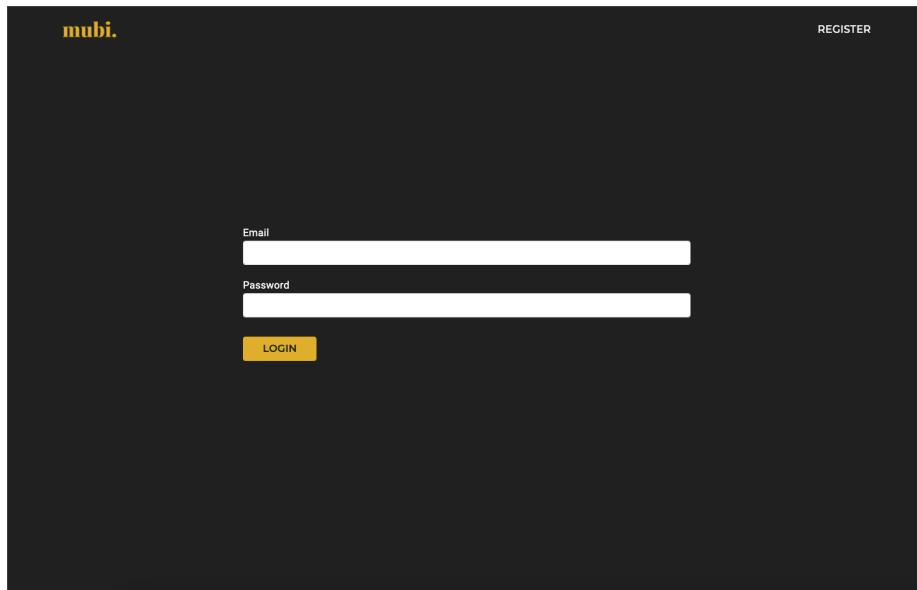
The image shows a registration form for the mubi platform. At the top left is the mubi logo, and at the top right is a 'LOGIN' link. Below the logo are five input fields: 'First Name' (filled with 'Melanie'), 'Last Name' (filled with 'Adan'), 'Email' (filled with 'mel@gmail.com'), 'Password' (containing several dots), and 'Confirm Password' (containing several dots). At the bottom of the form is a yellow 'REGISTER' button.

2. Users

- a. Users can browse movies



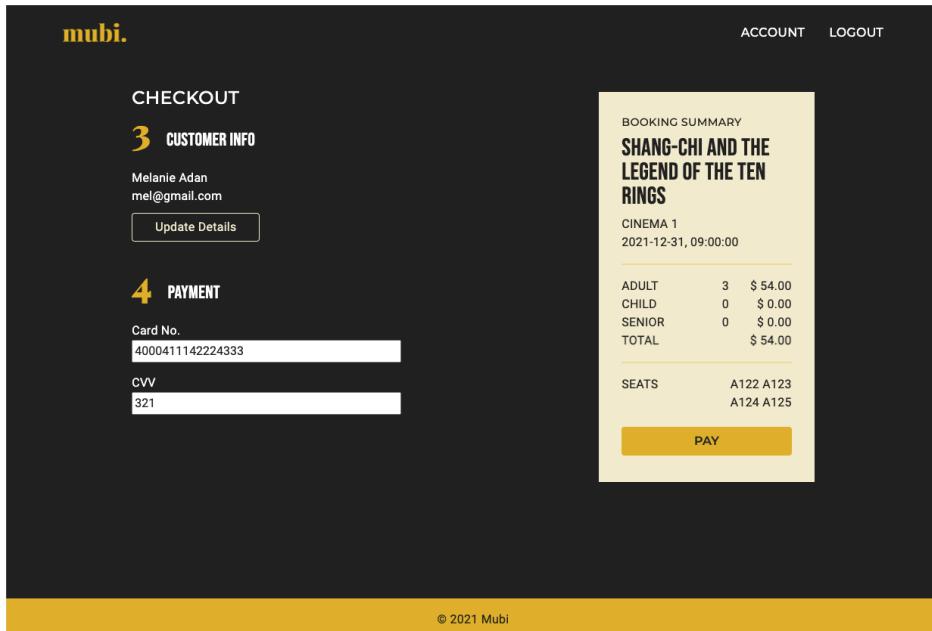
- b. Users can log in



- c. Users can book tickets

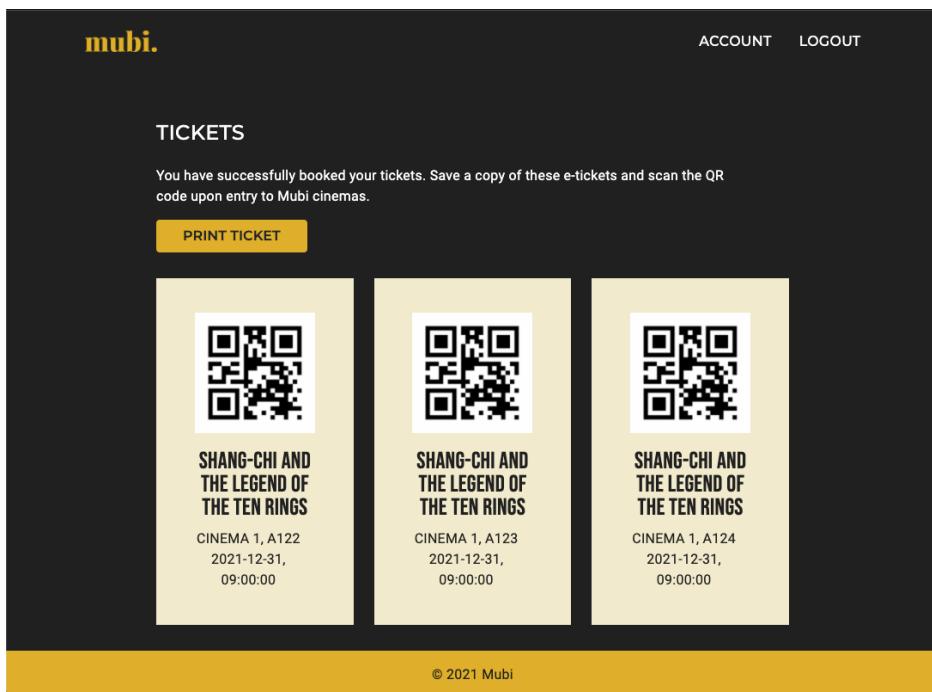
A screenshot of the Mubi ticket booking interface. The left side shows a "BOOK TICKETS" section with a "1 SELECT TICKETS" step. It lists ticket types: Adult (\$18.00), Child (\$14.00), and Senior (\$16.00), each with a quantity input field set to 4. The right side shows a "BOOKING SUMMARY" for the movie "SHANG-CHI AND THE LEGEND OF THE TEN RINGS" at CINEMA 1 on 2021-12-31, 09:00:00. The summary table includes columns for ADULT, CHILD, SENIOR, and TOTAL, with values 4, 0, 0, and \$144.00 respectively. Below the summary is a "SEATS" section showing a grid of 4 rows and 10 columns of seating. Seats A122 and A123 are highlighted in orange, while others are white. At the bottom right is a yellow "CHECKOUT" button. The footer contains the text "© 2021 Mubi".

- d. Users can pay using credit card

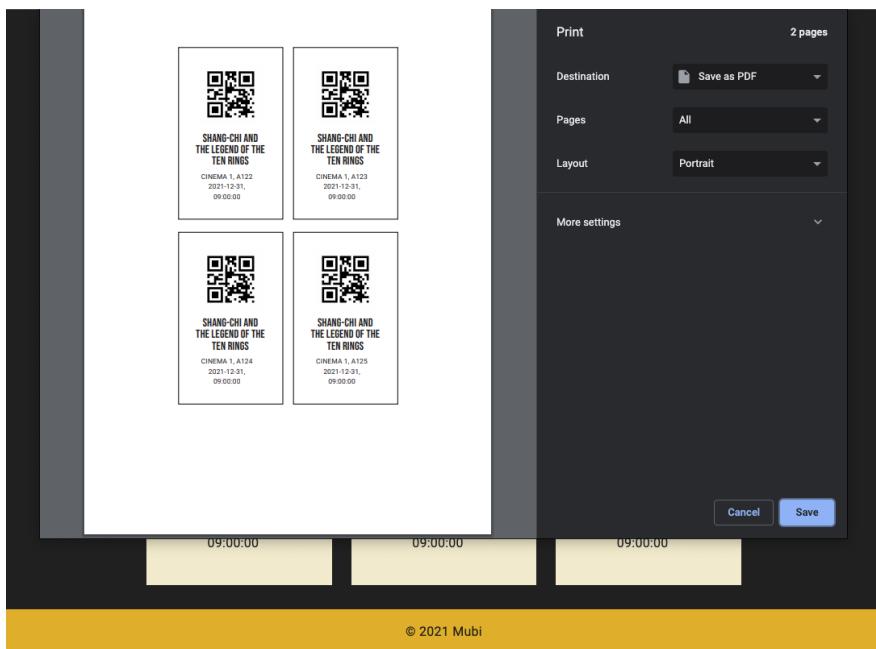


The screenshot shows the Mubi checkout process. On the left, there's a 'CHECKOUT' section with a '3 CUSTOMER INFO' step showing 'Melanie Adam' and 'mel@gmail.com'. A 'Update Details' button is available. Below it is a '4 PAYMENT' step with fields for 'Card No.' containing '4000411142224333' and 'CVV' containing '321'. On the right, a 'BOOKING SUMMARY' box displays details for 'SHANG-CHI AND THE LEGEND OF THE TEN RINGS' at 'CINEMA 1' on '2021-12-31, 09:00:00'. It lists ticket types: ADULT (3), CHILD (0), SENIOR (0), and a total of '\$ 54.00'. Seats A122, A123, A124, and A125 are listed. A large yellow 'PAY' button is at the bottom.

- e. Users can print their tickets



The screenshot shows the Mubi ticketing page. At the top, it says 'TICKETS'. A message states: 'You have successfully booked your tickets. Save a copy of these e-tickets and scan the QR code upon entry to Mubi cinemas.' A 'PRINT TICKET' button is present. Below are three ticket stubs for 'SHANG-CHI AND THE LEGEND OF THE TEN RINGS'. Each stub includes a QR code and the following information: Stub 1: CINEMA 1, A122, 2021-12-31, 09:00:00; Stub 2: CINEMA 1, A123, 2021-12-31, 09:00:00; Stub 3: CINEMA 1, A124, 2021-12-31, 09:00:00. The bottom of the screen features a yellow footer bar with the text '© 2021 Mubi'.



f. Users can edit their own account details

mubi.

ACCOUNT ADMIN LOGOUT

First Name  
Pia

Last Name  
Setuilo

Email  
iyasatuito@gmail.com

Password  
.....

Confirm Password  
.....

UPDATE

g. Users can log out (Logout option highlighted in yellow)

The screenshot shows a user profile edit form on a dark-themed website. At the top right, there are three links: "ACCOUNT", "ADMIN", and "LOGOUT". The "LOGOUT" link is highlighted with a yellow background. The form itself has five input fields: "First Name" (Pia), "Last Name" (Satuito), "Email" (iyasatuito@gmail.com), "Password" (four dots), and "Confirm Password" (four dots). A yellow "UPDATE" button is located at the bottom left of the form area.

Field	Value
First Name	Pia
Last Name	Satuito
Email	iyasatuito@gmail.com
Password	.....
Confirm Password	.....

UPDATE

### 3. Admin

Apart from the things normal users can do, admins can also:

- See statistics related to the website

The screenshot shows the Mubi Admin Dashboard. On the left is a dark sidebar with the 'mubi.' logo at the top and a navigation menu below it. The menu items are: VISIT SITE, DASHBOARD, MOVIES, ADD MOVIE, SCHEDULE, USERS, and LOGOUT. The main area is titled 'Dashboard' and contains several summary cards. One card shows '1 PAST MOVIES'. Another shows '3 NOW SHOWING'. A third shows '2 UPCOMING'. Below these is a large card showing '\$2774 TOTAL SALES'. To the right of that is another card showing '174 TICKETS BOOKED'.

- See Movies

The screenshot shows the Mubi Admin Movies page. On the left is a dark sidebar with the 'mubi.' logo at the top and a navigation menu below it. The menu items are: VISIT SITE, DASHBOARD, MOVIES, ADD MOVIE, SCHEDULE, USERS, and LOGOUT. The main area is titled 'Movies' and displays a table of movie information. The columns are: Movie, Director, Actor, Status, and Action. The table contains the following data:

Movie	Director	Actor	Status	Action
Shang-Chi and The Legend of the Ten Rings	Destin Daniel Cretton	Simu Liu, Michelle Yeoh, Awkwafina	Now Showing	
Free Guy	Shawn Levy	Ryan Reynolds, Taika Waititi, LilRel Howery	Now Showing	
Paw Patrol: The Movie	Cal Brunker	Tyler Perry, Randall Park, Jimmy Kimmel	Past Movie	
The Dark Knight Rises	Christopher Nolan	Joseph Gordon-Levitt, Michael Caine, Tom Hardy	Upcoming	
The Eternals II	Chloe Zhao	Gemma Chan, Richard Madden, Kumail Nanjiani	Upcoming	
Kate	Cedric Nicolas-Troyan	Mary Elizabeth Winstead	Now Showing	

i. Edit Movie

The screenshot shows the 'Edit Movie' form. The left sidebar has links for VISIT SITE, DASHBOARD, MOVIES, ADD MOVIE, SCHEDULE, USERS, and LOGOUT. The main area has fields for Title (Kate), Description (Kate is an assassin and expert sniper who eliminates targets chosen by her trusted mentor and handler, Varrick.), Director/s (Cedric Nicolas-Troyan), Actor/s (Mary Elizabeth Winstead), Duration (120), Trailer URL (MysGjRS9jFU), a checkbox for Feature on Homepage (unchecked), Screening Status (Now Showing), and a yellow SUBMIT button.

Title	Kate
Description	Kate is an assassin and expert sniper who eliminates targets chosen by her trusted mentor and handler, Varrick.
Director/s	Cedric Nicolas-Troyan
Actor/s	Mary Elizabeth Winstead
Duration	120
Trailer URL	MysGjRS9jFU
<input type="checkbox"/> Feature on Homepage	(unchecked)
Screening Status	Now Showing

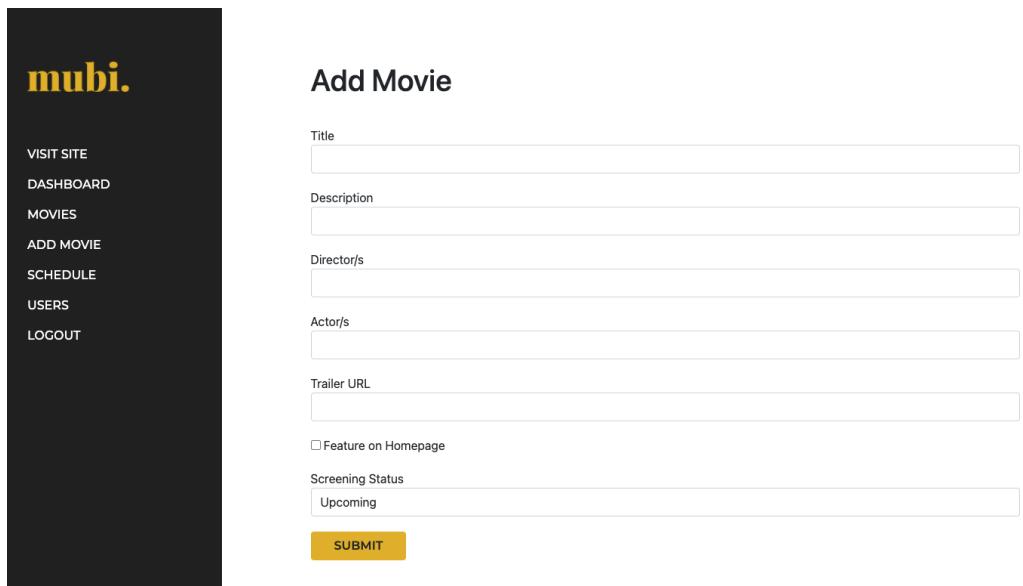
**SUBMIT**

ii. Delete Movie

The screenshot shows the 'Movies' page. The left sidebar has links for VISIT SITE, DASHBOARD, MOVIES, ADD MOVIE, SCHEDULE, USERS, and LOGOUT. A message says 'You have successfully deleted a movie.' Below is a table of movies:

Movie	Director	Actor	Status	Action
Shang-Chi and The Legend of the Ten Rings	Destin Daniel Cretton	Simu Liu, Michelle Yeoh, Awkwafina	Now Showing	
Free Guy	Shawn Levy	Ryan Reynolds, Taika Waititi, LilRel Howery	Now Showing	
Paw Patrol: The Movie	Cal Brunker	Tyler Perry, Randall Park, Jimmy Kimmel	Past Movie	
The Eternals II	Chloe Zhao	Gemma Chan, Richard Madden, Kumail Nanjiani	Upcoming	
Kate	Cedric Nicolas-Troyan	Mary Elizabeth Winstead	Now Showing	

c. Add Movie



The screenshot shows the 'Add Movie' form on the Mubi website. The left sidebar has links for VISIT SITE, DASHBOARD, MOVIES, ADD MOVIE, SCHEDULE, USERS, and LOGOUT. The main form area has fields for Title, Description, Director/s, Actor/s, Trailer URL, a checkbox for Feature on Homepage, Screening Status (set to Upcoming), and a yellow SUBMIT button.

**Add Movie**

Title

Description

Director/s

Actor/s

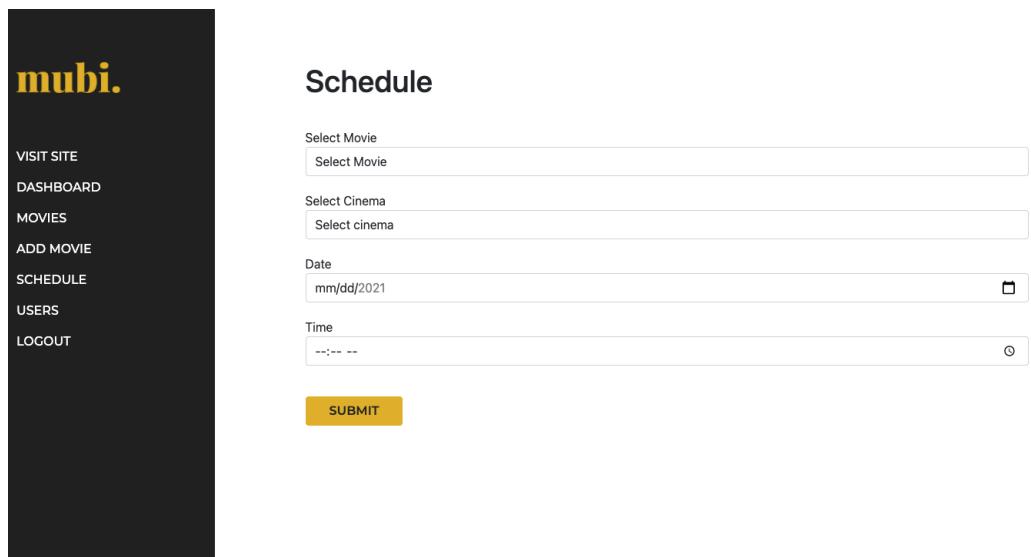
Trailer URL

Feature on Homepage

Screening Status

**SUBMIT**

d. Add Movie Schedule



The screenshot shows the 'Schedule' form on the Mubi website. The left sidebar has links for VISIT SITE, DASHBOARD, MOVIES, ADD MOVIE, SCHEDULE, USERS, and LOGOUT. The main form area has fields for Select Movie (with placeholder 'Select Movie'), Select Cinema (with placeholder 'Select cinema'), Date (set to mm/dd/2021), Time (set to --:-- --), and a yellow SUBMIT button.

**Schedule**

Select Movie

Select Cinema

Date

Time

**SUBMIT**

e. See Users

The screenshot shows the 'mubi.' application interface. On the left is a vertical navigation menu with options: VISIT SITE, DASHBOARD, MOVIES, ADD MOVIE, SCHEDULE, USERS, and LOGOUT. The main content area is titled 'Users' and displays a table of user information:

Name	Email	Role	Action
Betina Bondoc	betinabondoc@gmail.com	Admin	
Pia Satuito	iyasatuito@gmail.com	Admin	
Ma Pia	iya@gmail.com	Customer	
Ga Ga	ga@gmail.com	Customer	

i. Edit User

The screenshot shows the 'mubi.' application interface. On the left is a vertical navigation menu with options: VISIT SITE, DASHBOARD, MOVIES, ADD MOVIE, SCHEDULE, USERS, and LOGOUT. The main content area is titled 'Edit Account' and contains a form with the following fields:

First Name	<input type="text" value="Betina"/>
Last Name	<input type="text" value="Bondoc"/>
Email	<input type="text" value="betinabondoc@gmail.com"/>
Change Password	<input type="text" value="*****"/>
Change Role	<input type="text" value="Admin"/>

**UPDATE**

## ii. Delete User

The screenshot shows the Mubi user management interface. On the left is a sidebar with links: VISIT SITE, DASHBOARD, MOVIES, ADD MOVIE, SCHEDULE, USERS, and LOGOUT. The main area has a title 'Users' and a message 'You have successfully deleted a user.' Below is a table with columns: Name, Email, Role, and Action (containing edit and delete icons). The data is as follows:

Name	Email	Role	Action
Betina Bondoc	betinabondoc@gmail.com	Admin	
Pia Satuito	iyasatuito@gmail.com	Admin	
Ma Pia	iya@gmail.com	Customer	

## f. Log Out

For guest users / not logged in

Guest users cannot see the cinema option and schedule option

The screenshot shows the Mubi homepage for guest users. At the top is a large image of Simu Liu and Awkwafina from the movie 'Shang-Chi and the Legend of the Ten Rings'. A yellow play button icon is overlaid on the image. Below the image is a movie poster for 'SHANG-CHI AND THE LEGEND OF THE TEN RINGS' with the release date 'SEPTEMBER 3'. To the right of the poster is the text 'NOW SHOWING' and the movie title 'SHANG-CHI AND THE LEGEND OF THE TEN RINGS'. Below the title is a brief synopsis: 'Marvel Studios' Shang-Chi and The Legend of The Ten Rings stars Simu Liu as Shang-Chi, who must confront the past he thought he left behind when he is drawn into the web of the mysterious Ten Rings organization. The film also stars Tony Leung as Wenwu, Awkwafina as Shang-Chi's friend Katy and Michelle Yeoh as Jiang Nan, as well as Fala Chen, Meng'er Zhang, Florian Munteanu and Ronny Chieng. Shang-Chi and The Legend of The Ten Rings is directed by Destin Daniel Cretton and produced by Kevin Feige and Jonathan Schwartz, with Louis D'Esposito, Victoria Alonso and Charles Newirth serving as executive producers. David Callaham & Destin Daniel Cretton & Andrew Lanham wrote the screenplay for the film.' Below the synopsis are the director 'Destin Daniel Cretton' and the starring actors 'Simu Liu, Michelle Yeoh, Awkwafina'. At the bottom of the page is a yellow footer bar with the text '© 2021 Mubi'.

## **4      Methodology**

For this project, we have used Bootstrap and Custom CSS to design the website. The client website (the portion of the site that is open to guests and registered users) is mobile-responsive as it is expected that they will also use their mobile phones. We have used media-queries to make the website responsive and manipulate the design of the printable view. The admin website is not responsive as users admin users normally need a desktop for optimal experience. We have used jQuery and AJAX for most of the client-facing features such as seeing movie schedules, adding tickets, and selecting seats. For the rest of the functionalities, we used form submissions via PHP. We heavily relied on PHP sessions in our log in, form feedbacks, and other submissions.

We have used MariaDB via phpMyAdmin. Our database consists of 7 tables: booking, cinema, movie, price, schedule, ticket, user. The website is hosted under the CDMS server for this unit.

The main challenge we have experienced is making the SQL queries (multiple queries and combining multiple tables). Because they are a lot of dependencies between each table, it is a bit challenging to manipulate data especially when deleting an item that is linked to another table. Likewise, AJAX is a bit challenging. Our booking system is a bit ambitious for a small project with limited time.

## **5      Peer Assessments**

Betina Bondoc:

Pia is a delight to work with. She is a mobile developer so she is new to the web languages but she really tried her best to keep up. Likewise, she is used to non-relational databases so SQL prove dto be a challenge for her. Nevertheless, I believe we have contributed equally to the project as we worked using our strengths and helped each other out when we faced roadblocks.

Ma. Pia Leona Satuito:

I'm quite thankful that I was able to work with Betina Bondoc. Although she claims to be a 'rookie web developer', her knowledge and skills are definitely remarkable. I can always ask her if I encounter something very challenging. To add to this, her code are excellent and very professional.

## **6      Summary and Conclusion**

In conclusion, the project proved to be a good learning experience for the team. We were able to apply everything that was covered in class. We were also able to explore a bit of the latest web technologies, like designing single-page architectures (SPAs) and user access controls.

## **7      Reflections**

Betina Bondoc:

I enjoyed making this project, so much so that I got a bit ambitious in adding a lot of features. We were able to make most things work, but I would definitely want to continue working on the projects to polish the features like add more constraints and making even the admin site responsive.

Ma. Pia Leona Satuito:

I really struggled to do this project but at the same time, I enjoyed learning new things necessary for web development.

# Appendix

## 300693 Web Technologies

### Assignment 2 : Project Proposal

#### 1 Purpose

The main purpose of this project is to provide a simple and easy way for users to book tickets to a cinema house.

#### 2 Rationale

**Problem:** Mubi, a newly-opened cinema in Sydney, needs a system where users can browse and book tickets to movies they wish to watch. Due to the COVID-19 pandemic, the system must also be able to help reduce face-to-face interactions by keeping most interactions online.

**Solution:** Create a web-based online booking system that handles payment via online channels and generates e-tickets.

**Benefits:** Because the proposed solution is web-based, there is no need to download a native app. The solution would be accessible via web and mobile devices that have browsers. The purely online interaction would potentially reduce face-to-face interactions and transmissions especially since the generated ticket would be QR codes which could be scanned on the movie theaters.

#### 3 Target Users

This web application is designed for movie-goers, aged 16 to 40, generally tech-savvy and know how to use QR codes and online payments.

#### 4 Personas

**Albert:** A 25-year-old movie enthusiast who likes to watch movies as soon as they are released. He is tech-savvy and has no problem with online shopping and booking. He mostly uses mobile apps to book tickets because of the seamless experience.

**Lou:** A 39-year-old working mom who likes to bring her kids to the movie house. She is not new to online booking systems but usually uses her work computer or laptop when doing so as she usually needs to book tickets for her big family and often finds it a huge undertaking, having to enter all their details every time.

#### 5 Functionalities

Access to the website is restricted based on three user types:

- Guest User: Users not registered on the site. Can browse movies.
- Registered User: Users registered on the site. Can book movies and save account information.
- Admin: Users given special access to the site. Can manipulate data on the website.

Below are the specific functionalities of the website:

1. Registration/Login
  - a. New users can register via the registration form
  - b. Registered users can log in via the login form
  - c. Admins can change the user type of a registered user to another admin

2. Browsing Movies
  - a. All users can see the general movie details (synopsis, actors, director) as well as their scheduled release.
  - b. All users can see upcoming and current movies.
3. Booking Tickets
  - a. Registered users can select dates, times, and seats for their movie tickets
  - b. Registered users can pay via credit card
  - c. Registered users can save or screenshot their e-tickets with QR code after payment
  - d. The system will hold the tickets for 15 minutes while the user completes the transaction
4. Updating Website
  - a. Admins can update movie details (synopsis, actors, director, date, time, available seats, and ticket prices)

## 6 Design Sketch

Figure 1 shows the paper wireframes for the proposed website. It consists of the views for the registration/login, homepage, movie details, and booking for users as well as the dashboard, tables, and forms for the admins. HTML and CSS (Bootstrap) will be used to build and design the mobile-responsive interface. MySQL (MariaDB) and PHP will be mainly used for the backend, especially the admin functions. Javascript (jQuery) and AJAX will be used to make the website interactive, especially the booking system.

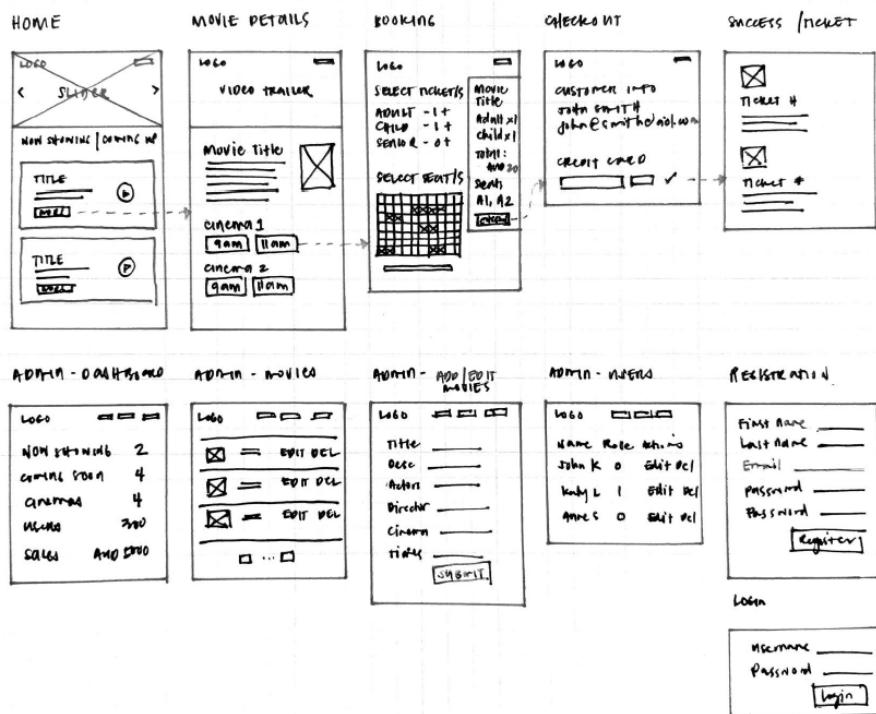


Figure 1. Paper Wireframes