

INFS3202 PROJECT PROPOSAL: ONLINE LEARNING SYSTEM

INTRODUCTION:

The goal of this project is to create a dependable and user-friendly online learning environment that offers students a variety of programming and data algorithm courses. Numerous outdated platforms lack professional certification for future careers and are not focused on specific fields like engineering or programming. TechBridge was created to fulfill the demand of IT students. Furthermore, this platform also offers courses for fundamental knowledge, such as database management for engineering students or data analyst using Python, in addition to programming courses.

OBJECTIVES:

An MVC architecture will be used for the proposed platform, with a view (client), controller (application server), and model (database). The platform will typically implement a number of features, such as the ability to add courses to a cart or wish list and proceed with payment using well-known options like Paypal or Visa/Mastercard. Additionally, users can use the search bar on the Course page to find their preferred courses with the help of the autocomplete search box feature.

TechBridge Dashboard displays courses that students are enrolled in, have completed, and have on their wishlist. Through Dashboard, students can access their courses. Each course has a unique web page with the assessment, required readings, and grades. The assessment section allows students to upload their files and rate and comment on the course materials as well as download them.

The user's password will be hidden in order to protect their privacy information. There are two additional options, including "remember me" to make access easier and "forgot password" to allow users to recover their accounts if they forget their passwords.

UI/UX DESIGN

By default at Home, the navigation bar at top left side can lead to 4 main pages:

- **Home page:** Provide the overview of the website. **(image 2).**
- **Login/Logout:** Users can access this page to log in their profile and enroll in a course. **(Image 3)**
- **Courses:** A vast range of courses for students to choose and students can look for more information before enrolling in. Courses can be added to the cart or wish list for further enrollment, and proceed at the checkout page. **(Image 4,5,6)**
- **Dashboard:** The Dashboard only available when users log in successfully. The dashboard is a place to see the course students completed or currently pursuing. Otherwise, the dashboard will not be available. **(Image 8)**

After login, students can access their courses through the dashboard to see their:

- **User Profile:** This page includes student's information such as name, number of courses and emails. The page is also able to upload user pictures. **(Image 7)**
- **Course details:** Each course has a Course details page, including course materials and assessment page. **(Image 8)**
 - + **Course Materials:** Course materials provides students with lecture video and pdf files and exercises. Students can download videos and files to their computer. **(Image 9)**
 - + **Assessment:** Students can upload their solution as pdf files or programming files on this page. **(Image 10)**

TIMELINE:

Gantt chart **(Image 1)** for tasks of each Milestone, colors represent the time by which must be completed and when I need to rush:

- Green: Weeks that I am allowed to implement the feature for the website.
- Orange: If the feature still has not finished at this time, it needs to be finished as soon as possible.
- Red: During this time features must be finished before the demo time.

REFERENCES:

1. *Meta Front-End Developer* n.d., Coursera, viewed 23 March 2023, <<https://www.coursera.org/professional-certificates/meta-front-end-developer>>.
2. Udemy 2000, *Online Courses - Learn Anything, On Your Schedule | Udemy*, Udemy, Udemy.
3. UQBlackBoard, BlackBoard, viewed 23 March 2023
4. INFS3202 (2023). Project Proposal Sample, Brisbane

APPENDIX:

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	WEEK 12	WEEK 13
	(20/2 - 26/2)	(27/2 - 5/3)	(6/3-12/3)	(13/3 - 19/3)	(20/3-26/3)	(27/3-2/4)	(3/4 - 9/4)	(10/4 - 16/4)	(17-24/4)	(24 - 30/4)	(1/5 - 7/5)	(8/5 - 14/5)	(15/5 - 21/5)
MILESTONE 1 (5%)													
Research													
Write Report													
MILESTONE 2 (20%)													
Remember me: retain the user's login details even after the session expired.(2)													
Maintain scroll position of large HTML page when client return (2)													
Continuously loading data when scrolling (2)													
Favorites and rating (2)													
Adding Course(2)													
Multiple files uploading at the same time (2)													
Writing comments/ reviews (2)													
User profile updating (2)													
Basic file uploading (2)													
Image Processing (2)													
Adjust details of UI/UX													
MILESTONE 3 (20%)													
Web Security (2)													
Search box autocompletion (2)													
Display the user's current location on the map (2)													
Using drag and drop to choose files for uploading (2)													
Third-party API integration (2)													
Online Payment Integration (2)													
Image and PDF manipulation (2)													
Forgot Password (3)													
Shopping cart/ Wishlist/ Calendar (3)													
Adjust details of UI/UX													

Image 1: Gantt Chart

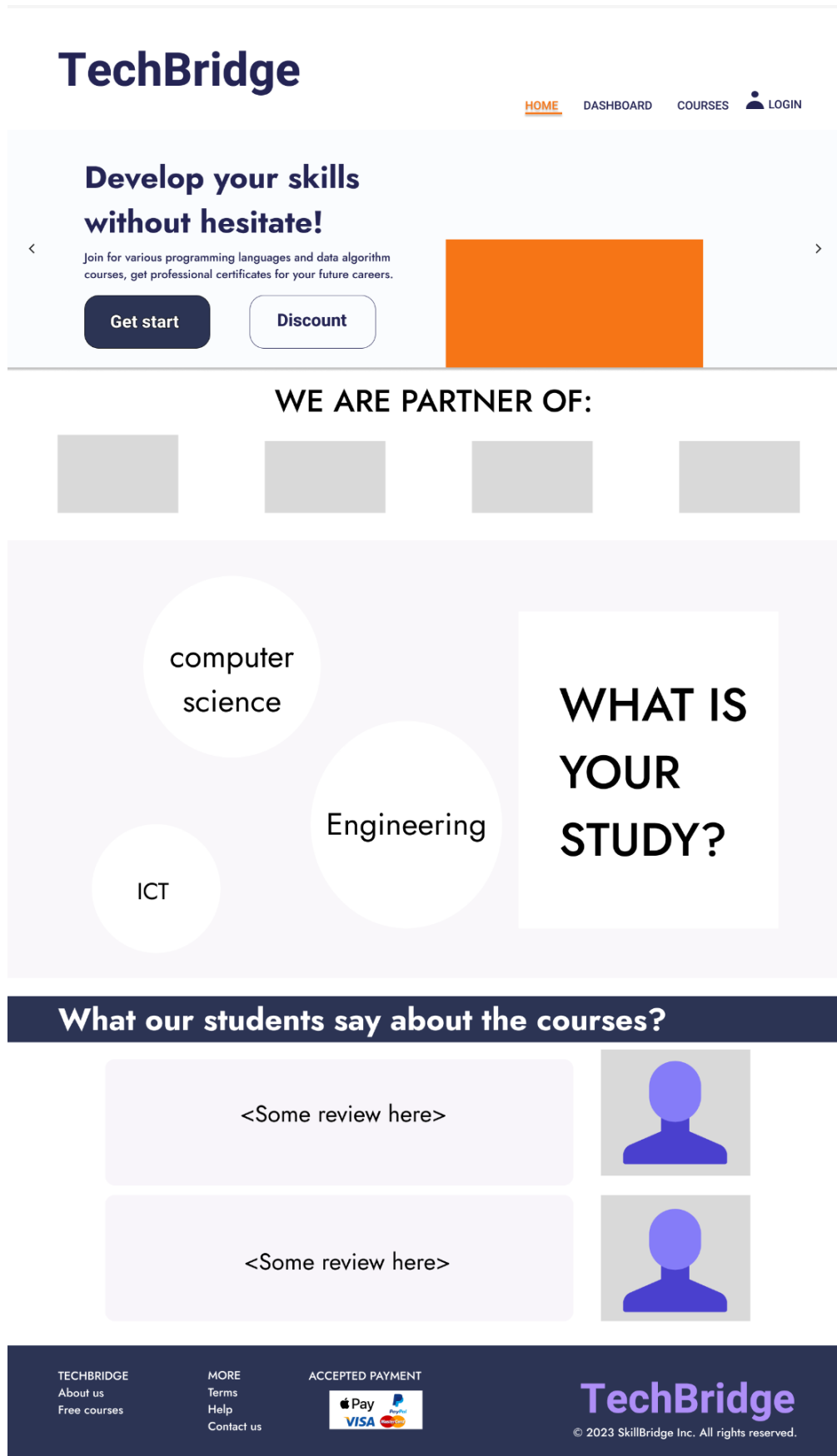


Image 2: Home

LOGIN

Email

Password

[Forgot password?](#)

Login

Sign up

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ACCEPTED PAYMENT



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Image 3: Login/ Logout



<SECTION 1>

<Some
information about
this section>

CATEGORY



SEARCH

DETAILS ABOUT THE COURSE

DETAILS ABOUT THE COURSE

DETAILS ABOUT THE COURSE

DETAILS ABOUT THE COURSE

DETAILS ABOUT THE COURSE

DETAILS ABOUT THE COURSE

<SECTION 3>

<Some
information about
this section>



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ACCEPTED PAYMENT

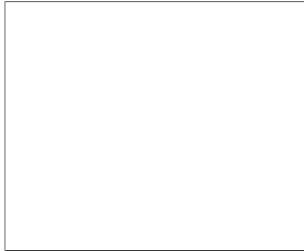


TechBridge

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Image 4: Courses

<NAME OF THE COURSE>



<Some introduction about the course here>
 <Rating>
 <Instructors>
 <Date course start>

Add to cart

Add to wishlist

[ABOUT](#)
[INSTRUCTOR](#)
[REVIEW](#)
[FAQ](#)

ABOUT

WHAT WILL YOU LEARN?

SKILL YOU WILL GAIN

APPLIED LEARNING PROJECT

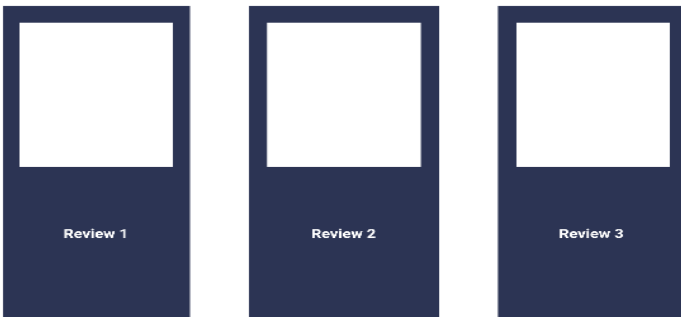
- Flexible Schedule
- Shareable Certificate
- 100% online courses
- Beginner Level

ABOUT THIS SPECIALIZATION

INSTRUCTOR

<Introduction about the instructor>

REVIEW



FAQ

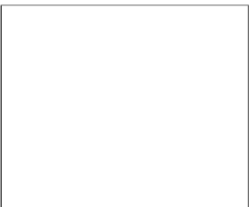
QUESTION 1:

QUESTION 2:

QUESTION 3:

Image 5: Course Details

CHECKOUT



TOTAL:

QUANTITY:

SAVING:

TOTAL:

Pay now

Image 6: Checkout

USER PROFILE



Name:
ID:
Occupation
Join from:
Completed:
Email:
Phone:

Change your password

Change your email

Change phone number

Change payment method

CERTIFICATION

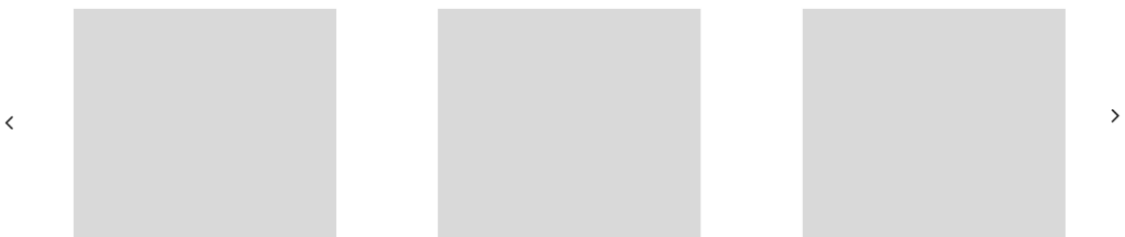


Image 7: User profile

PROFILE



NAME: Ho Vu Khanh Vy
ID: 47597868
Participated from: 17 March, 2023
Completed: 20 courses

YOUR COURSES

In Progress

Completed

Saved

< Course Name 1 >

80%

Next:
Chapter 6: <Chapter Name>

< Course Name 2 >

80%

Next:
Chapter 8: <Chapter Name>

EXPLORE MORE COURSES

<

<Course name>
★★★★☆
" Course Description "
Professional Certificate

<Course name>
★★★★☆
" Course Description "
Professional Certificate

<Course name>
★★★★☆
" Course Description "
Online Degree

>

Image 8: Dashboard



Image 9: Course Profile

Data analysis with Python

<Name of lecturer>

★★★★☆

Course Profile (ECP)

Course Materials

Your Notes

Assessment

Announcement

Grade

Lecturer:

<Name>

Email:

abc@gmail.com

Tutor:

<Name>

cde@gmail.com

<Name>

efg@gmail.com

WEEK 1: INTRODUCTION TO PYTHON

▶

00:00

⚙️

📺

LECTURES

<Introduction about the lectures and some aim of the lecture class this week>

<.pdf file, able to download>

PRACTICAL

<Introduction about the exercises and some aim of the practical class this week>

<.pdf file, able to download>

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PayPal

MasterCard

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Image 10: Course Materials



Course Profile (ECP)
Course Materials
Your Notes
Assessment
Announcement
Grade

Lecturer:
<Name>
Email:
abc@gmail.com

Tutor:
<Name>
cde@gmail.com
<Name>
efg@gmail.com

Assignment 1: <NAME OF ASSIGNMENT>

Some rule about submitting the assignment 1

1/
2/
3/

Download specifications here

Specifications.pdf
Template.pdf

Due date: xx/yy/yyyy



Drag and drop your file here!



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Image 11: Assessment

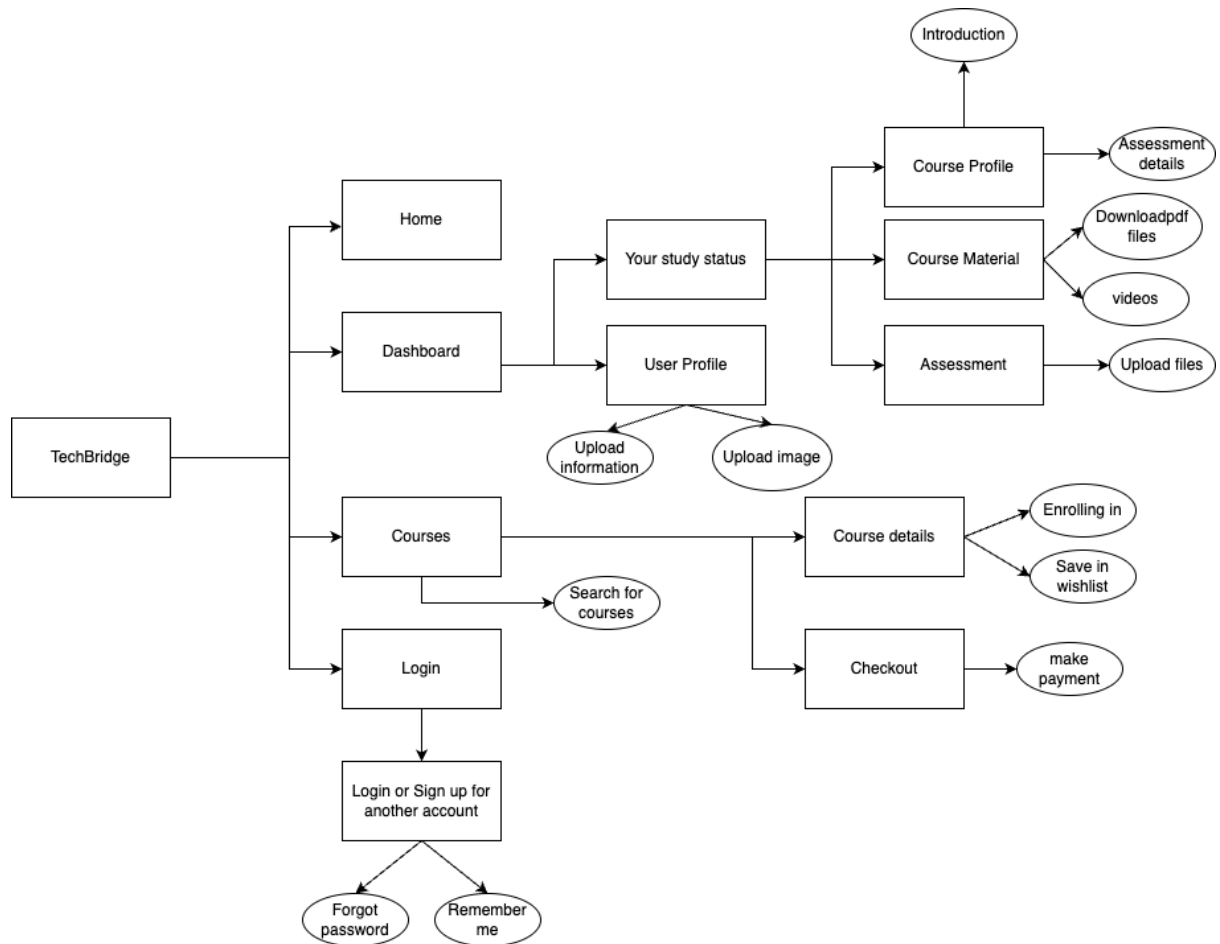


Image 12: The flow of main pages