Simplify
Design Specification

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Agenda

- Overview
- Specification
- High-Level System Architecture
- ER Diagram
- Site Map
- Wireframes
- Contribution List

Overview

Simplify is the platform to learn about complexities in a simple manner. A place to learn and teach.

The web application provides students and tutors an open ground to exchange knowledge without any hassle. The application gives any enthusiast the ability to either become a student or a tutor and share their knowledge with like minded individuals.

The focal point is that the platform is open source, i.e. open for the world to share and gain knowledge.

Specification

Alan, 37

Tutor

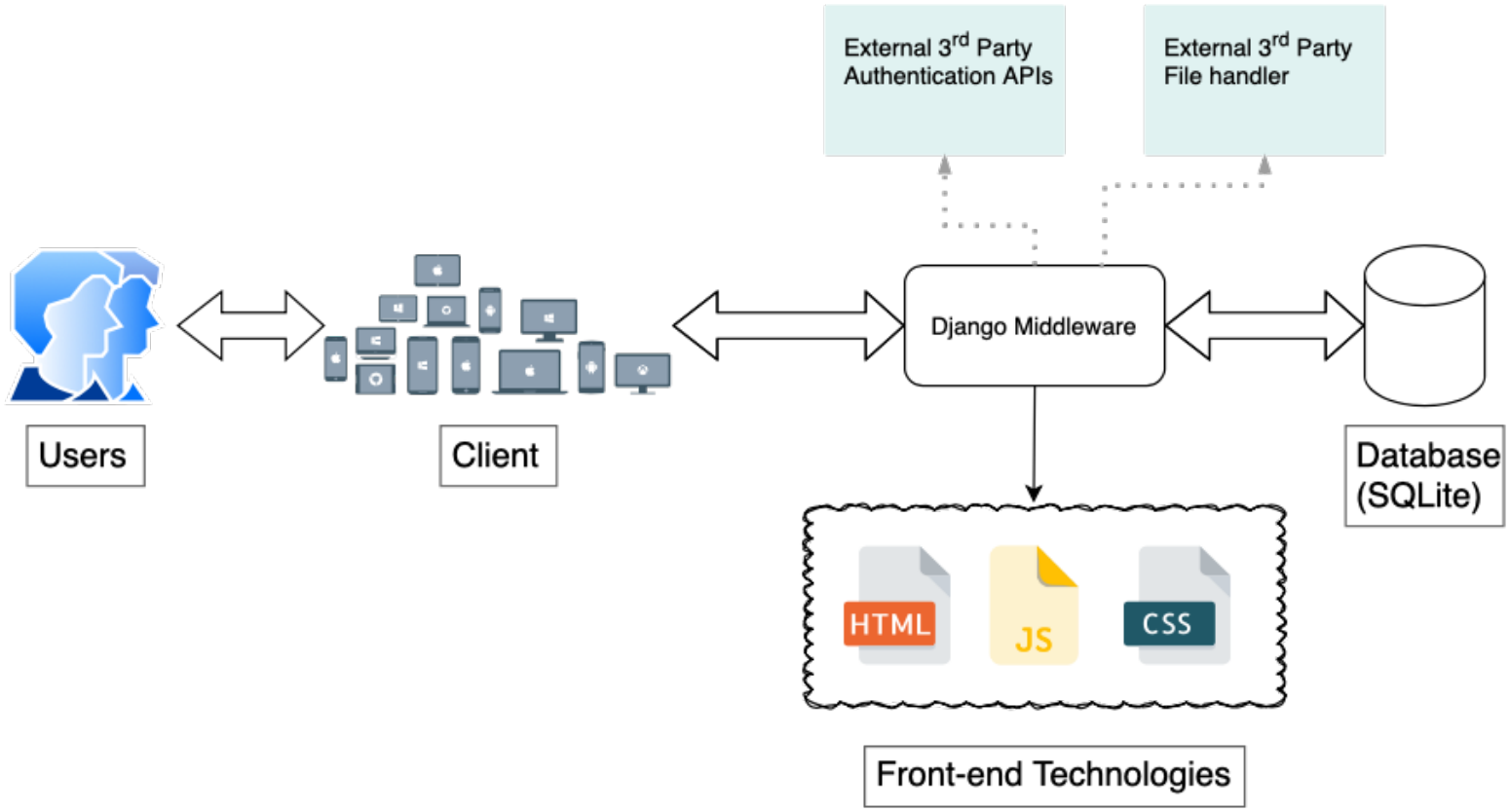
- Tutor should be able to login or register using google authentication or a registration form.
- Tutor should be able to register as a tutor.
- Tutor should be able to see their courses and be able to add new courses.
- Tutor should be able to add a description for a new course.
- Tutor should be able to publish course materials including slides, pdfs, images and video.
- Tutor should have access to forums for providing important updates regarding the course and for clearing doubts.

Daniel, 21

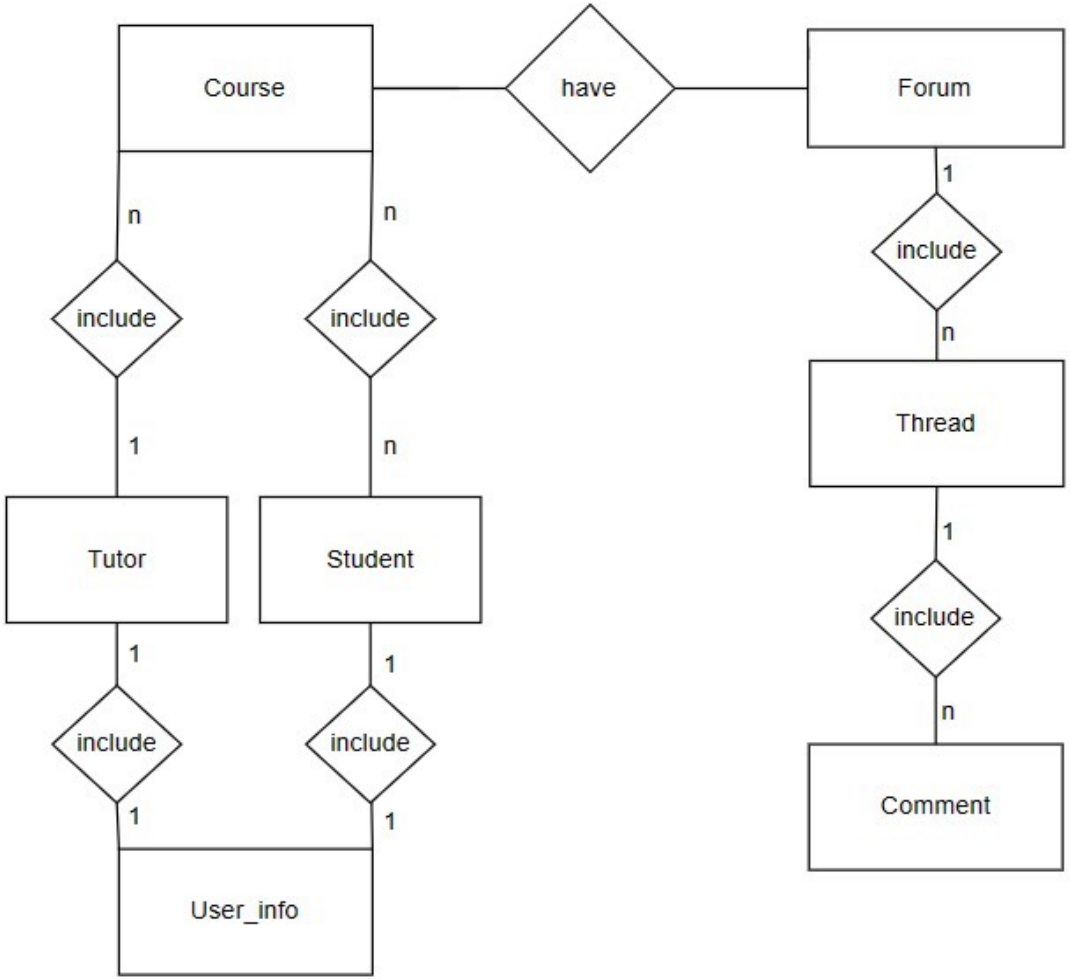
Student

- Student should be able to login or register using google authentication or a registration form.
- Student should be able to register as a student.
- The platform should be able to distinguish between the tutor and the student, with access being given to the student user for only the student specific pages.
- Student should be able to access all the course material.
- Student should be able to submit course work provided under a given course.
- Student should be able to enrol in more than one course at a given time.
- Student should have access to forums for discussion and posting questions.

High-Level System Architecture



ER Diagram


Course
have
Forum
n
n
1
include
include
include
n
n
Thread
Tutor
Student
1
1
1
include
include
include
n
1
1
Comment
User_info

ER Diagram Description

Forum

Field	Type	Description
ForumID	integer	PK,unique，Used to identify the forum
CourID*	varchar	FK，Used to connect courses and forum tables
ThreadID*	integer	FK，Used to connect thread and forum tables

Comment

Field	Type	Description
CommentID	integer	PK,unique
AuthorID*	integer	FK，Used to connect comment and user_info tables
Comment	varchar	User comments inside the thread
ThreadID*	integer	FK，Used to connect comment and thread tables

Thread

Field	Type	Description
ThreadID	integer	PK,unique
AuthorID*	integer	FK，Used to connect user_info and thread tables
Thr_mes	varchar	Text message inside the thread

Course

Field	Type	Description
CourID	integer	PK,unique，Used to identify the course
CourName	varchar	Name of the course
Material	urlfield	Various teaching materials uploaded by tutor during the course
Introduction	varchar	Brief description of the course content
ForumID*	integer	FK，Used to connect course and forum tables

User_info

Field	Type	Description
UserID	integer	PK,unique，Used to identify each student and tutor
UserName	varchar	User's username at the time of registration
Password	varchar	User's password at the time of registration
type	integer	Used to distinguish the identity of the user
FirstName	varchar	User's firstname
LastName	varchar	User's surname

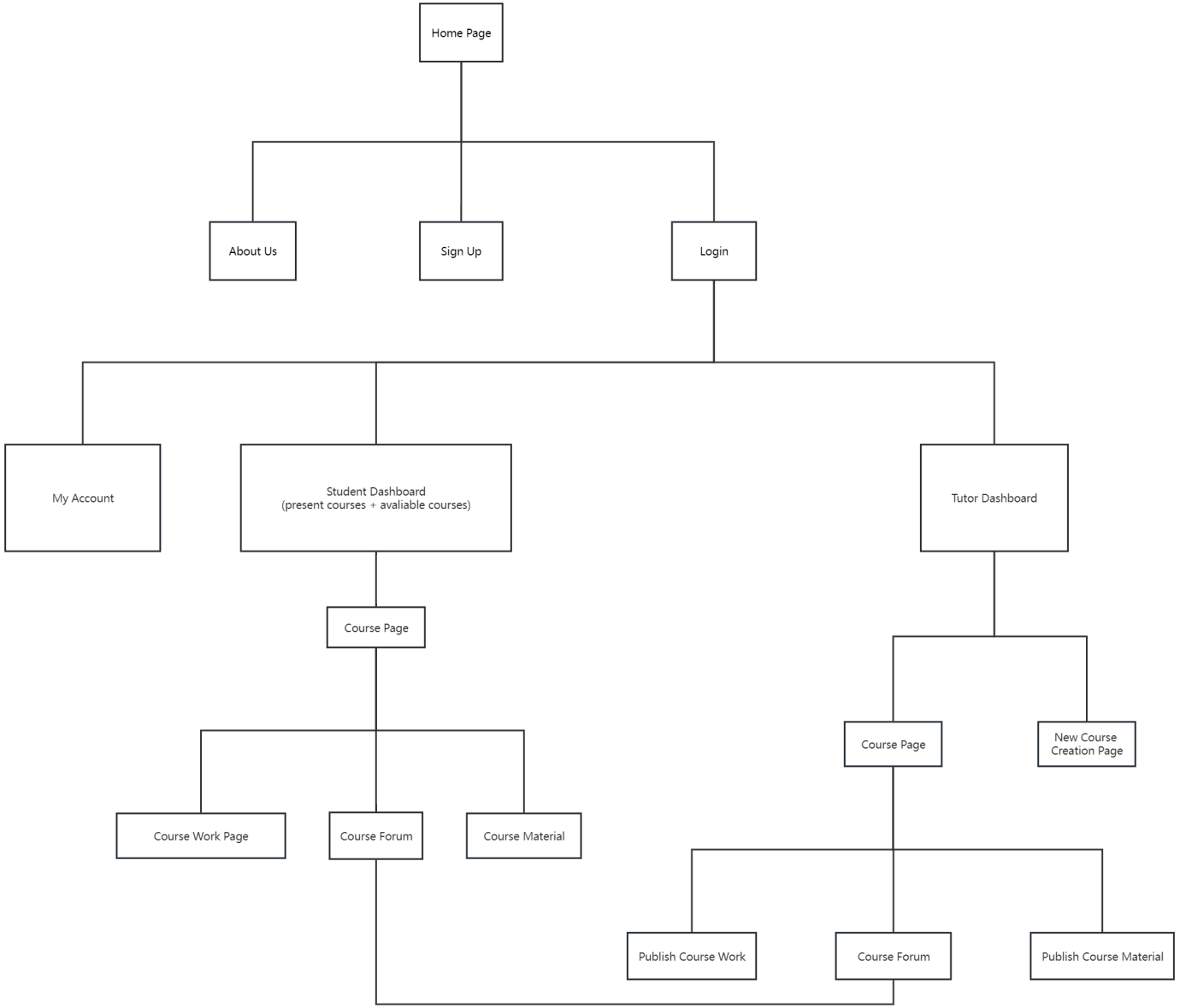
Tutor

Field	Type	Description
TutorID	integer	PK,unique
CourID*	integer	FK，Used to connect tutor and course tables

Student

Field	Type	Description
StuID	integer	PK,unique
CourID*	varchar	FK，Used to connect student and course tables

Site Map


Home Page
About Us
Sign Up
Login
My Account
Student Dashboard
(present courses + avaliable courses)
Tutor Dashboard
Course Page
Course Page
New Course
Creation Page
Course Work Page
Course Forum
Course Material
Publish Course Work
Course Forum
Publish Course Material

Wireframes

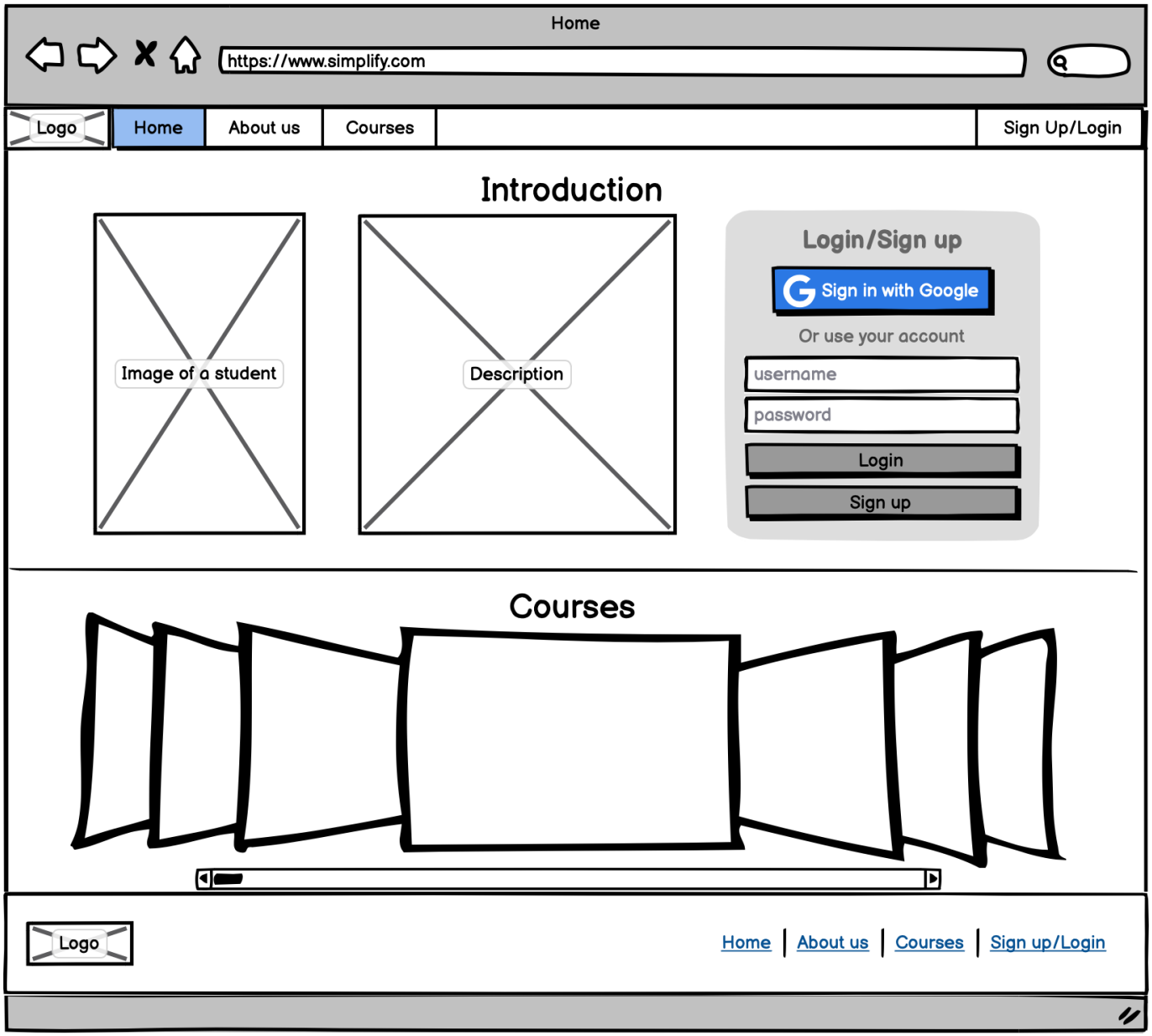
Home Page

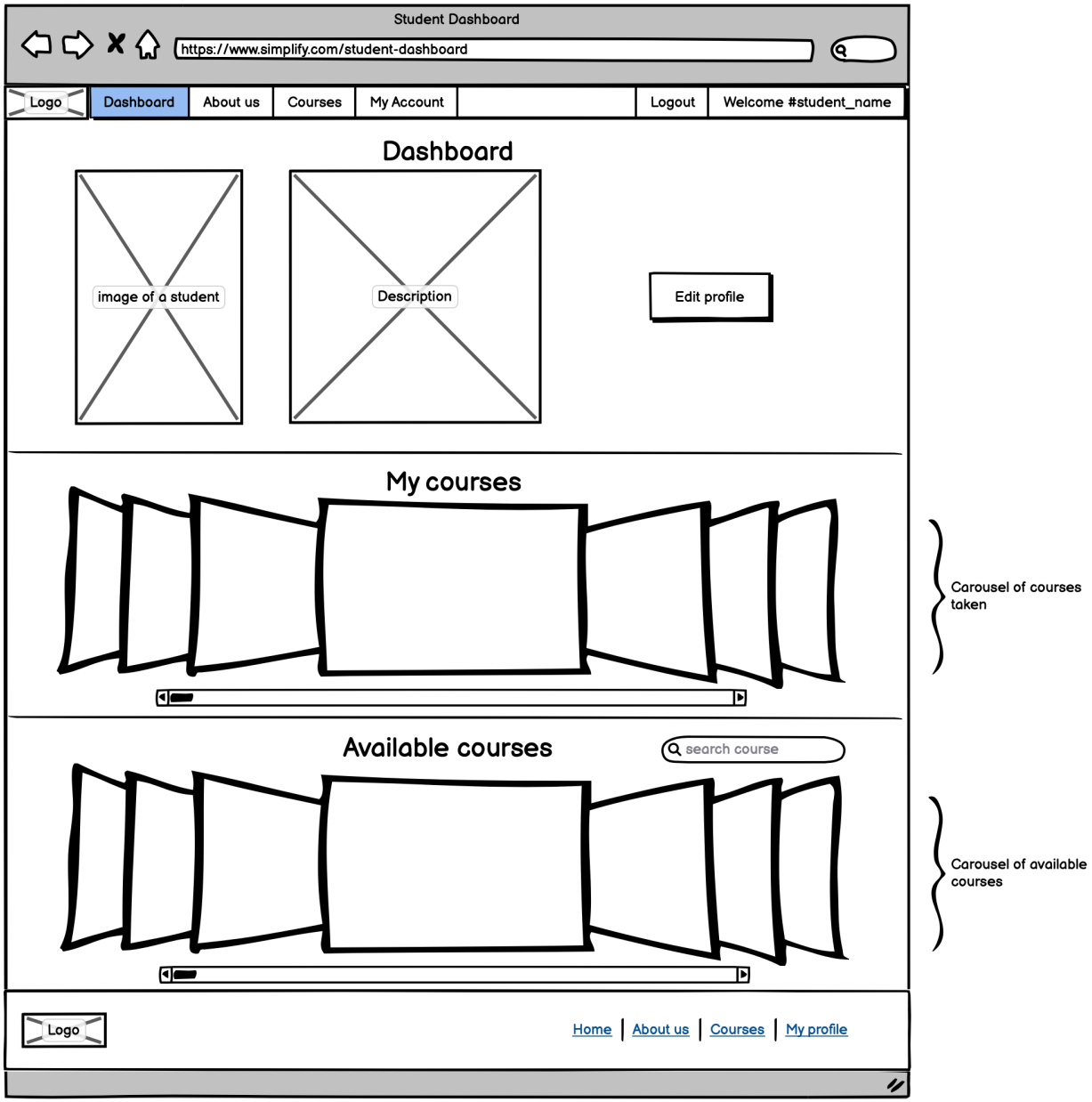
Student Dashboard

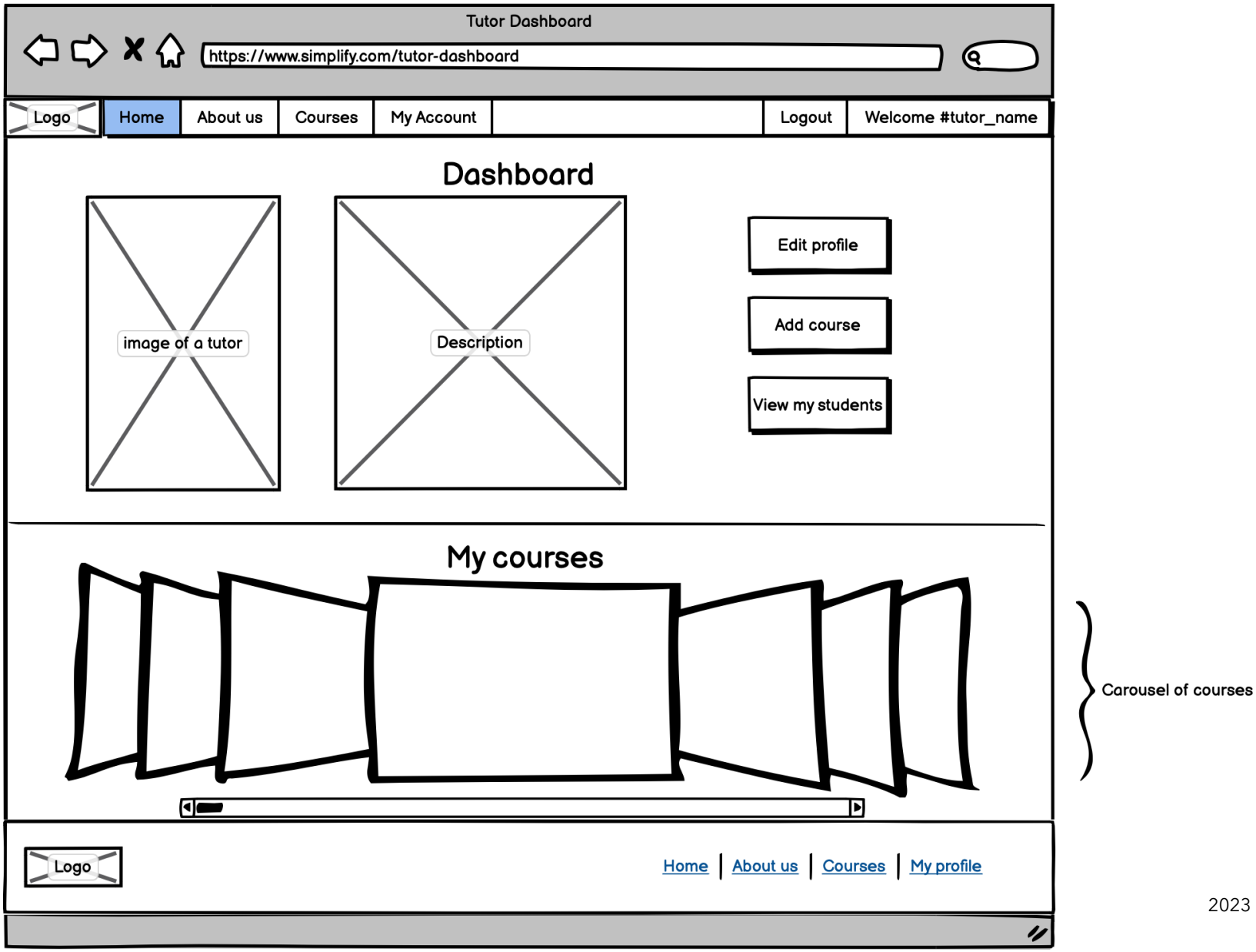
Tutor Dahboard

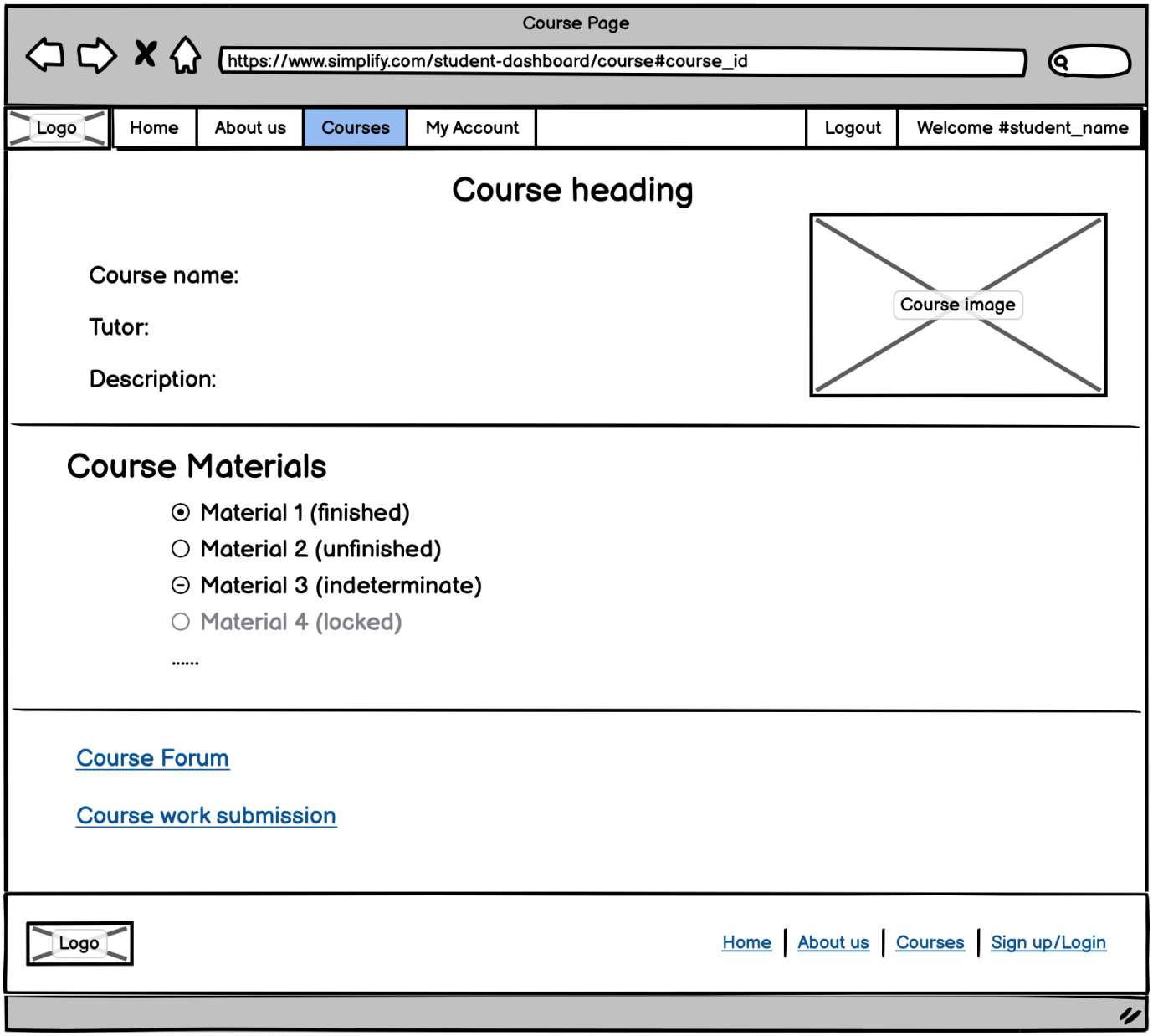
Course Page (Student)

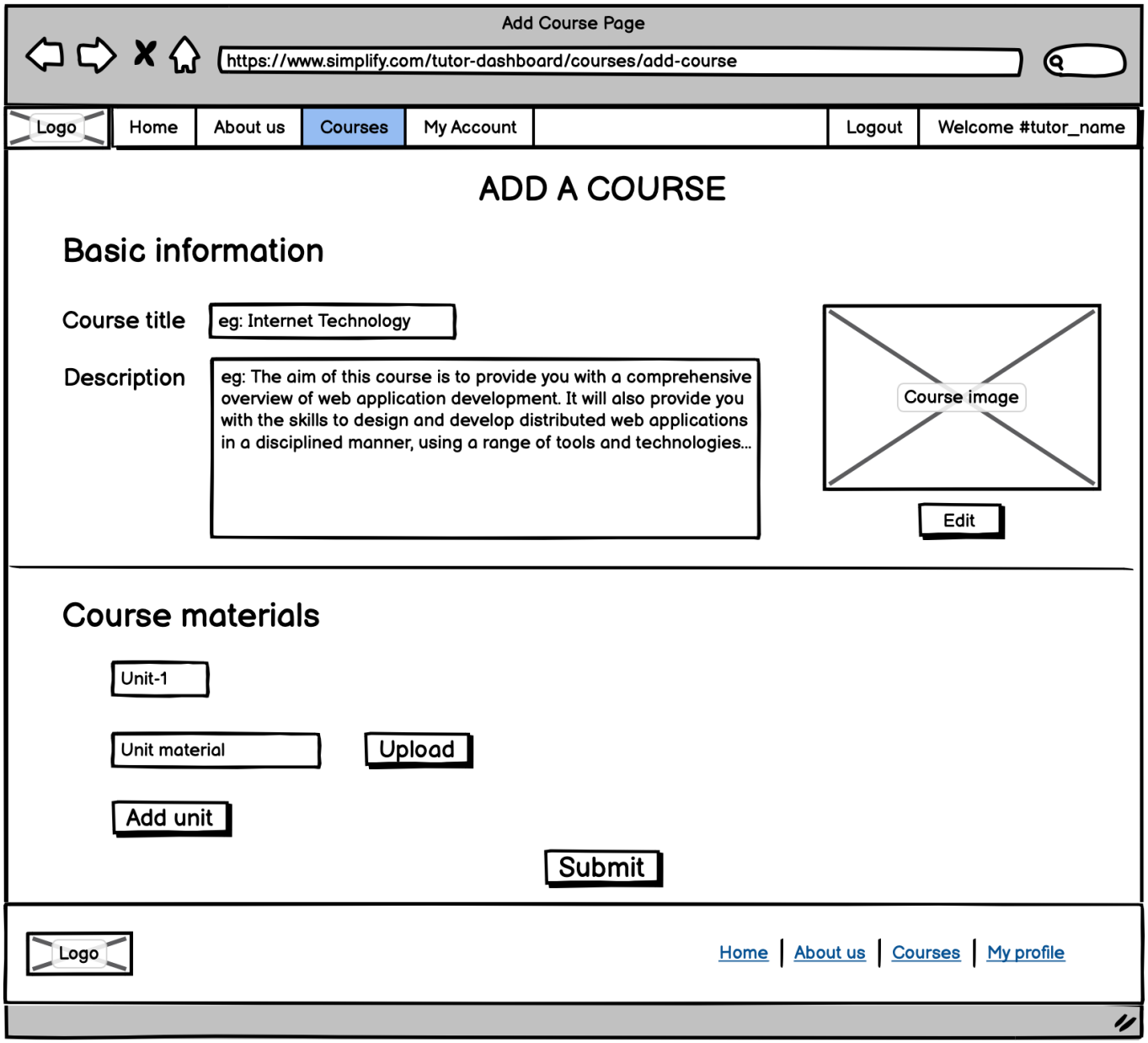
New Course Page (Tutor)


Home
https://www.simplify.com
Logo
Home
About us
Courses
Sign Up/Login
Introduction
Image of a student
Description
Login/Sign up
Sign in with Google
Or use your account
username
password
Login
Sign up
Courses
Carousel of courses
Logo
Home
About us
Courses
Sign up/Login


Student Dashboard
https://www.simplify.com/student-dashboard
Logo
Dashboard
About us
Courses
My Account
Logout
Welcome #student_name
Dashboard
image of a student
Description
Edit profile
My courses
Carousel of courses taken
Available courses
search course
Carousel of available courses
Logo
Home
About us
Courses
My profile


Tutor Dashboard
https://www.simplify.com/tutor-dashboard
Logo
Home
About us
Courses
My Account
Logout
Welcome #tutor_name
Dashboard
image of a tutor
Description
Edit profile
Add course
View my students
My courses
Carousel of courses
Logo
Home
About us
Courses
My profile


Course Page
https://www.simplify.com/student-dashboard/course#course_id
Logo
Home
About us
Courses
My Account
Logout
Welcome #student_name
Course heading
Course name:
Tutor:
Description:
Course image
Course Materials
Material 1 (finished)
Material 2 (unfinished)
Material 3 (indeterminate)
Material 4 (locked)
.....
Course Forum
Course work submission
Logo
Home | About us | Courses | Sign up/Login


Add Course Page
https://www.simplify.com/tutor-dashboard/courses/add-course
Logo
Home
About us
Courses
My Account
Logout
Welcome #tutor_name
ADD A COURSE
Basic information
Course title
eg: Internet Technology
Description
eg: The aim of this course is to provide you with a comprehensive overview of web application development. It will also provide you with the skills to design and develop distributed web applications in a disciplined manner, using a range of tools and technologies...
Course image
Edit
Course materials
Unit-1
Unit material
Upload
Add unit
Submit
Logo
Home
About us
Courses
My profile

Appendix: Contribution

Name	Student ID	Contribution %	Contributed in
Praharsh R Dubey	2738037	28%	Overview, Specification, High-Level System Architecture, ER Diagram, Site Map and Wireframes
Vikram Baruah	2795941	18%	Specification
Yin Long	2751099	18%	ER Diagram
Zhaobo Guo	2815951	18%	Site Map
Yifan Guo	2721370	18%	Wireframes

Thank you