BRAC UNIVERSITY

Inspiring Excellence

CSE471: System Analysis and Design
Project Report
Project Title: AbroadEase

Group No: 05, CSE471 Lab Section: 05, Summer 2025	
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Submission Date: 30.08.2025

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1. System Request

Business need:

AbroadEase, an Overseas Companion, a project to offer students a one stop solution for all the initial queries required during the application process, such as visa requirements, Statement of Purpose Guidelines, housing options and university profiles. It solves the problem of scattered information, and helps make moving overseas easier and clearer.

Business requirements:

1. Develop a secure system for user authentication, allowing users to sign up, log in, and manage their profiles.
2. Implement a content management system for administrators to post, update, and delete information regarding visas and SOPs.
3. Create a robust search and filtering system for users to find information on visas, universities, and rental properties based on various criteria.
4. Establish a separate dashboard for landowners to list their properties with detailed information.
5. Integrate a bookmarking feature for users to save important information, such as SOPs, visas, and housing listings.
6. Develop a notification system, specifically an email API, to alert users about new rental listings in their preferred locations

Business value:

1. **Improved User Experience:** Provides a single, user-friendly platform for all necessary information, reducing the time and effort required to gather data from multiple sources.
2. **Increased Efficiency:** Automates the process of finding housing and information, benefiting both users and landowners. The email alert

system ensures users are promptly notified of new listings, giving them a competitive advantage.

3. **Enhanced Content Management:** Allows admins to easily manage and update critical information, ensuring the content remains current and accurate.
4. **Monetization Potential:** The platform can be a basis for future monetization through features like sponsored university listings, premium landowner accounts, or paid guides.

Special issues or constraints:

1. **Data Accuracy:** Ensuring that visa and university information remains up-to-date and accurate will be a continuous challenge due to frequent changes in regulations and policies.
2. **User Adoption:** Attracting a critical mass of both users and landowners will be necessary to make the housing feature valuable.
3. **Security:** The system must handle sensitive user data, such as emails and resumes, securely, requiring robust authentication and data protection measures.
4. **Scalability:** The system needs to be designed to handle a growing number of users, posts, and listings without performance degradation, especially with features like real-time alerts and filtering.

2. Functional Requirements

The functional requirements are categorized into three modules:

- **User Account and Profile Management:** This module handles user sign-up, login, profile updates, and password changes. It also includes a separate dashboard for landowners and the ability for users to view bookmarks.
- **Post guidelines and filtering:** This module allows users to get information about visas and SOPs, filter universities, and bookmark posts. Admins can also create, update, and delete posts.
- **Housing:** This module includes features for filtering rental listings, viewing detailed property information, receiving new rental alerts, and bookmarking housing options. Admins have management capabilities for these listings.

3. Technology (Framework, Languages)

- Language: JS

- Framework: MERN

- Styling: Tailwind

- Database: MongoDB

- ORM: Mongoose

- Deployment: Vercel

3. Backend Development

Attach at least 5 code snippets of Backend/API development with proper description. Also, attach corresponding screenshots of Postman API testing.

a) code for server.js file for API connection.

Module 2: Post guidelines and filtering:

Feature-4:

Admin will be able to write posts regarding SOP instructions.

```js
server.js > ...
37
38    const SopPost = mongoose.model('SopPost', SopPostSchema);
39
40    // Health (optional, helps you show server is up)
41    app.get('/api/health', (req, res) => {
42      res.json({ status: 'ok', time: new Date().toISOString() });
43    });
44
45    // Feature: Admin writes SOP instruction posts
46    // Endpoint: POST /api/sop-posts
47    app.post('/api/sop-posts', async (req, res) => {
48      try {
49        const { title, country, degreeLevel = 'Other', tags = [], content } = req.body;
50
51        // Minimal validation (fast and clear errors)
52        if (!title || title.length < 5) {
53          return res.status(400).json({ error: 'Title is required and must be at least 5 characters.' });
54        }
55        if (!country || country.length < 2) {
56          return res.status(400).json({ error: 'Country is required and must be at least 2 characters.' });
57        }
58        if (!content || content.length < 50) {
59          return res.status(400).json({ error: 'Content is required and must be at least 50 characters.' });
60        }
61
```

```js
JS server.js > ...
47    app.post('/api/sop-posts', async (req, res) => {
60        }
61
62        const doc = await SopPost.create({ title, country, degreeLevel, tags, content });
63        return res.status(201).json({ message: 'SOP post created', data: doc });
64      } catch (err) {
65        console.error('Create SOP error:', err);
66        return res.status(500).json({ error: 'Internal server error' });
67      }
68    });
69
70    // Not found fallback
71    app.use((req, res) => {
72      res.status(404).json({ error: 'Route not found' });
73    });
74
75    // Start server on 1689
76    app.listen(PORT, () => {
77      console.log(`🚀 Server running on http://localhost:${PORT}`);
78    });
79
80
```

b) Code for property.js

```js
routes > JS propertyRoutes.js > ...
1     const express = require('express');
2     const router = express.Router();
3     const {
4         getAllProperties,
5         getPropertyById,
6         createProperty,
7         updateProperty,
8         deleteProperty
9     } = require('../controllers/propertyController');
10
11    // Get all properties
12    router.get('/', getAllProperties);
13
14    // Get property by ID
15    router.get('/:id', getPropertyById);
16
17    // Create new property
18    router.post('/', createProperty);
19
20    // Update property
21    router.put('/:id', updateProperty);
22
23    // Delete property
24    router.delete('/:id', deleteProperty);
25
26    module.exports = router;
```

```javascript
24        };
25
26        // Create new property
27        exports.createProperty = async (req, res) => {
28            try {
29                const property = new Property(req.body);
30                const savedProperty = await property.save();
31                res.status(201).json(savedProperty);
32            } catch (err) {
33                res.status(400).json({ error: 'Failed to create property' });
34            }
35        };
36
37        // Update property
38        exports.updateProperty = async (req, res) => {
39            try {
40                const property = await Property.findByIdAndUpdate(
41                    req.params.id,
42                    req.body,
43                    { new: true }
44                );
45                if (!property) {
46                    return res.status(404).json({ error: 'Property not found' });
47                }
48                res.json(property);
49            } catch (err) {
50                res.status(400).json({ error: 'Failed to update property' });
51            }
52        };
53
```

```javascript
54        // Delete property
55        exports.deleteProperty = async (req, res) => {
56            try {
57                const property = await Property.findByIdAndDelete(req.params.id);
58                if (!property) {
59                    return res.status(404).json({ error: 'Property not found' });
60                }
61                res.json({ message: 'Property deleted successfully' });
62            } catch (err) {
63                res.status(500).json({ error: 'Failed to delete property' });
64            }
65        };
66
67
68        exports.createProperty = async (req, res) => {
69            try {
70                const newProperty = new Property(req.body);
71                const savedProperty = await newProperty.save();
72                res.status(201).json({
73                    message: 'Property added successfully',
74                    propertyId: savedProperty._id
75                });
76            } catch (error) {
77                console.error('✘ Error in createProperty:', error);
78                res.status(500).json({ error: error.message });
79            }
80        };
81
```
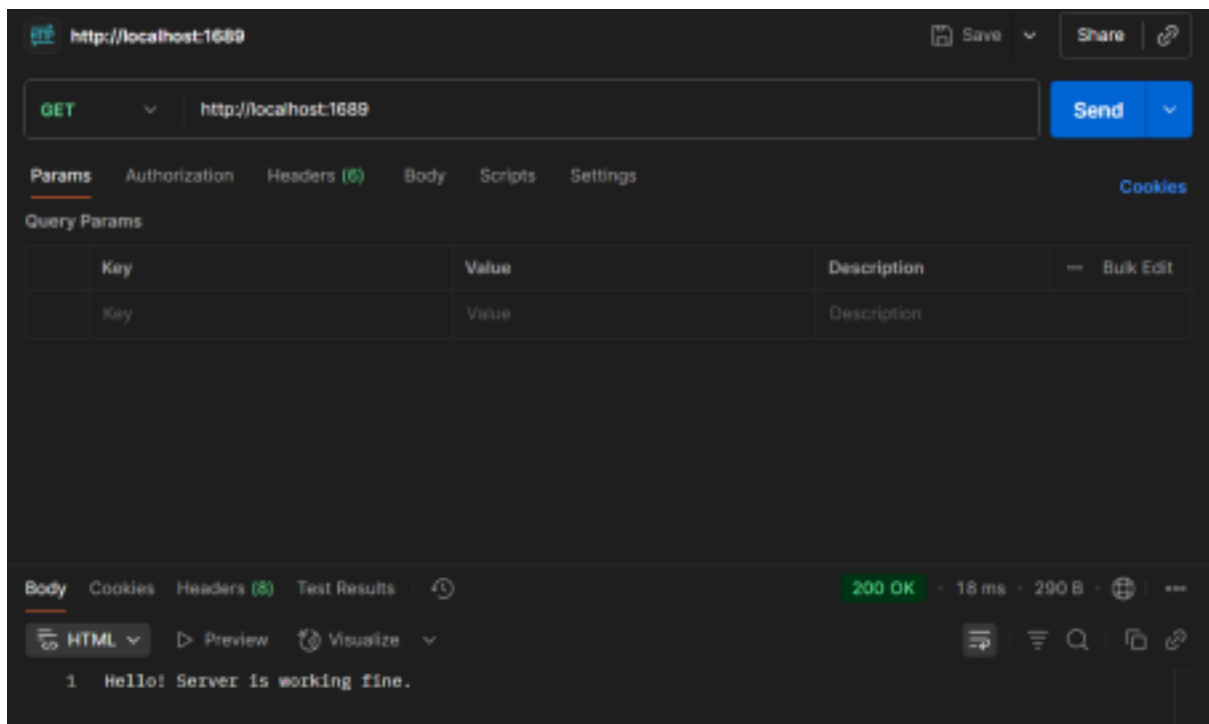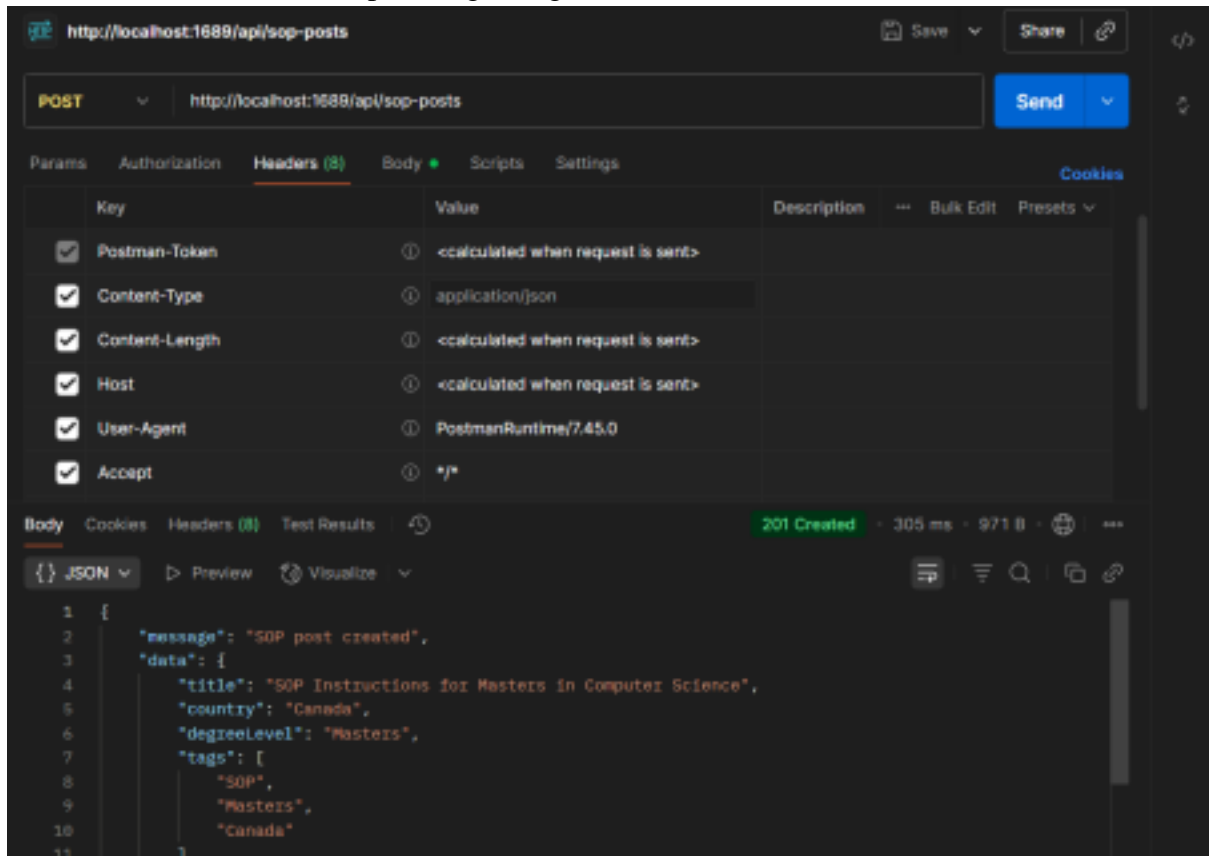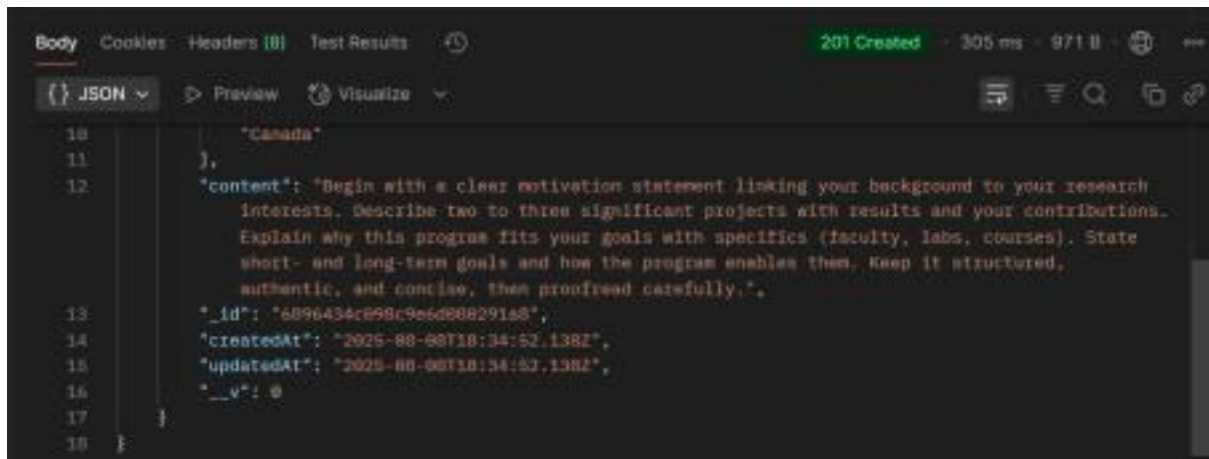
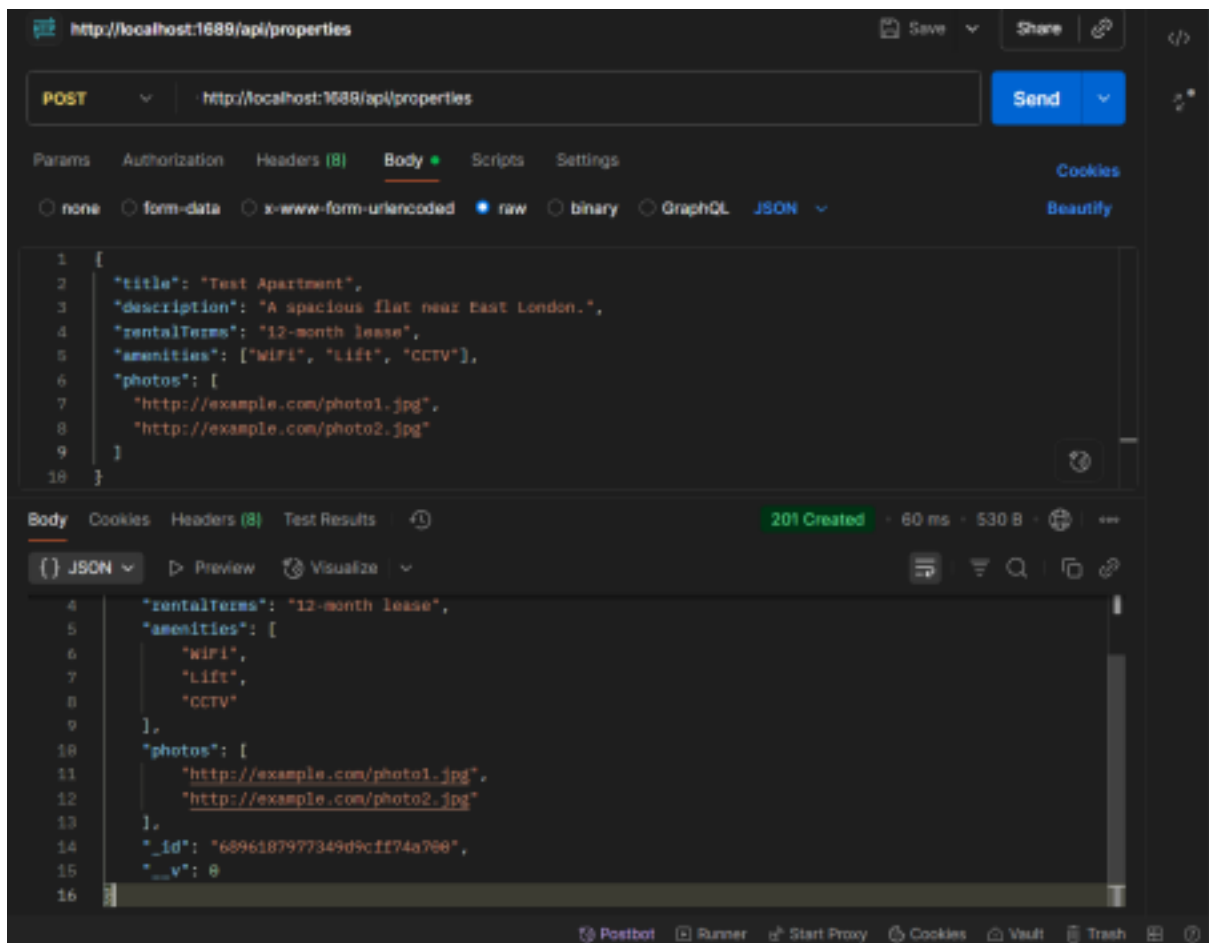**API for** : Module 2: Post guidelines and filtering:

Feature-4:

Admin will be able to write posts regarding SOP instructions.

```
10        |  "Canada"
11        },
12        "content": "Begin with a clear motivation statement linking your background to your research
             interests. Describe two to three significant projects with results and your contributions.
             Explain why this program fits your goals with specifics (faculty, labs, courses). State
             short- and long-term goals and how the program enables them. Keep it structured,
             authentic, and concise, then proofread carefully.",
13        "_id": "6896434c698c9e6d88829188",
14        "createdAt": "2025-08-08T18:34:52.138Z",
15        "updatedAt": "2025-08-08T18:34:52.138Z",
16        "__v": 0
17        }
18    }
```
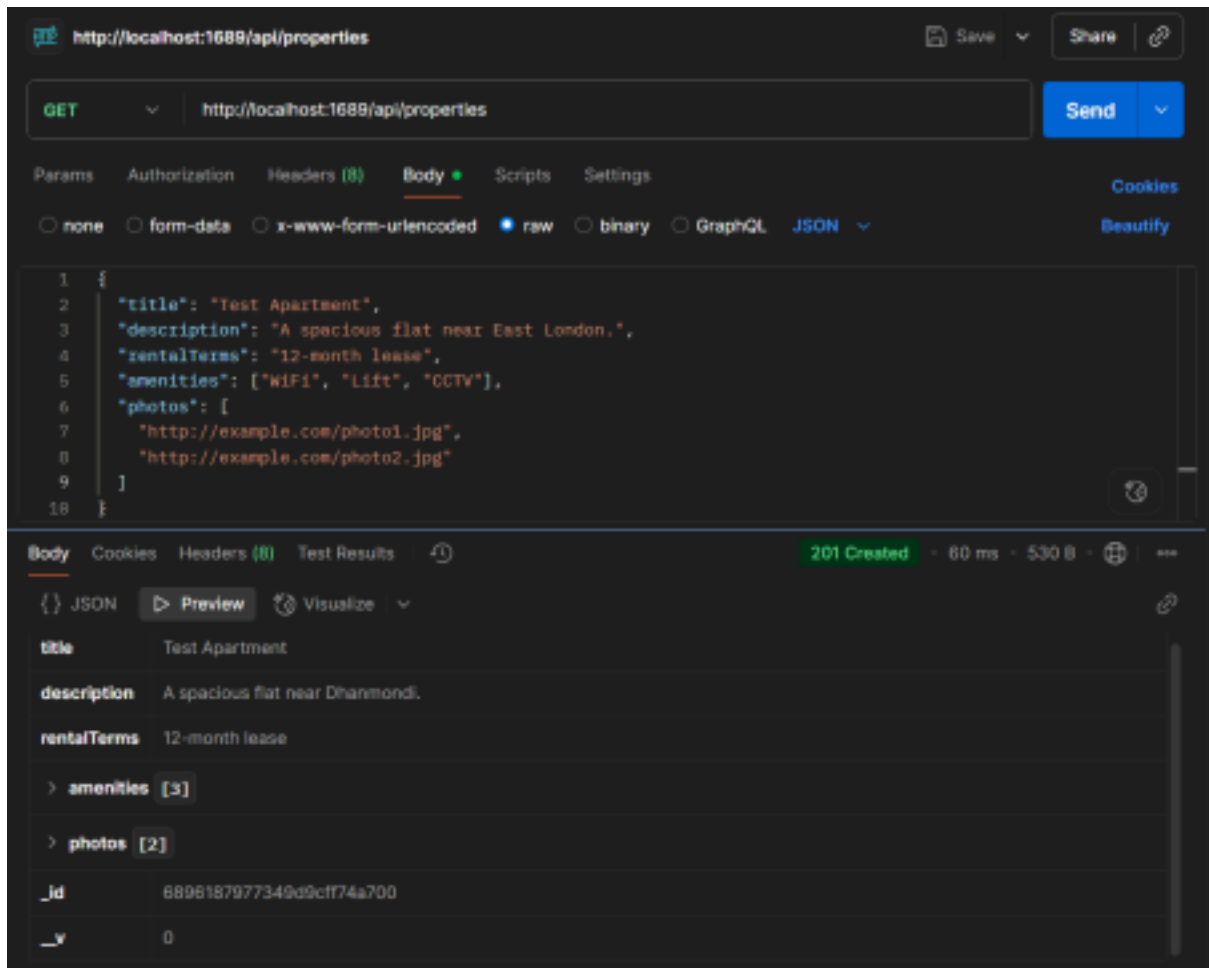
API for : Module 3: Housing:
Feature-2:

Detailed Property Information: Each listing includes property
photos, descriptions, rental terms, and amenities for better decision-making.

```
http://localhost:1689/api/properties                                          Save    Share

POST        http://localhost:1689/api/properties                              Send

Params   Authorization   Headers (8)   Body ●   Scripts   Settings            Cookies

none   form-data   x-www-form-urlencoded   ● raw   binary   GraphQL   JSON   Beautify

1   {
2      "title": "Test Apartment",
3      "description": "A spacious flat near East London.",
4      "rentalTerms": "12-month lease",
5      "amenities": ["WiFi", "Lift", "CCTV"],
6      "photos": [
7        "http://example.com/photo1.jpg",
8        "http://example.com/photo2.jpg"
9      ]
10   }

Body   Cookies   Headers (8)   Test Results              201 Created · 60 ms · 530 B

{} JSON    Preview    Visualize

4      "rentalTerms": "12-month lease",
5      "amenities": [
6          "WiFi",
7          "Lift",
8          "CCTV"
9      ],
10     "photos": [
11         "http://example.com/photo1.jpg",
12         "http://example.com/photo2.jpg"
13     ],
14     "_id": "6896187977349d9cff74a700",
15     "__v": 0
16   }

Postbot   Runner   Start Proxy   Cookies   Vault   Trash
```

4. User Interface Design

Attach at least 5 interface designs generated in Figma. Attach the figma project link.
https://www.figma.com/design/DTkPcpMykGUpxVrEJh4bKL/Lab2?node-id=0-1&t=4WuxyVXsLdeaR2en-1

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📍 The Old Schools, Trinity Ln, Cambridge CB2 1TN, United Kingdom

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Start application

Start application

2 items found

Bachelors of Science (Honors) – Computer Science
Application Fee: Free
Tuition Fee: 19800 USD
Duration: 3 years Bachelor's degree

Masters of Arts – Photography
Application Fee: Free
Tuition Fee: 13400 USD
Duration: 2 years of Master's degree

Ranking   **Public Uni**

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Institutions or field of study (e.g. Psychology or Beijing) 🔍

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🏠 Search City | Area | University | Neighborhood | Property 🔍   ⚙ All Filters

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Showing 1- 4 of 25 items
Page 1 of 3

AbroadEase
Master the art of writting compelling SOPs and guideline

Search for SOP topics (e.g, Graduate school for MBA)

Latest Posts & guideline cards

Graduate School SOP →

MBA SOP Guideline →

sop for
scholarship →

How to write SOP
a complete guiedline →

AbroadEase
Master the art of writting compelling SOPs and guideline

Search for SOP topics (e.g, Graduate school for MBA)

Profile
Search University
SOP Content
Visa Content
Housing
Notification

Logout

Latest Posts & guideline cards

Graduate School SOP →

MBA SOP Guideline →

sop for
scholarship →

How to write SOP
a complete guiedline →

AbroadEase
Master the art of writing compelling SOPs and guideline

The Essential SOP Structure: A Step-by-Step Guide

Crafting a Statement of Purpose (SOP) can seem daunting, but with a clear structure, you can ensure all crucial elements are included and presented logically. This guide breaks down the essential sections of a compelling SOP.

1. Introduction: Hook Your Reader
Begin with a captivating opening that clearly states your purpose for applying to the specific program and university. This is where you grab the admissions committee's attention.
  • State the program and university you are applying to.
  • Briefly mention your motivation or a key experience that led you to this path.
  • Provide a concise overview of what the SOP will cover.

2. Academic Background: Showcase Your Foundation
Detail your academic journey, highlighting relevant coursework, projects, and achievements. Connect your past studies to your future aspirations.
  • Discuss your undergraduate degree and major.
  • Mention significant academic projects, research, or theses.
  • Highlight relevant courses and skills gained.
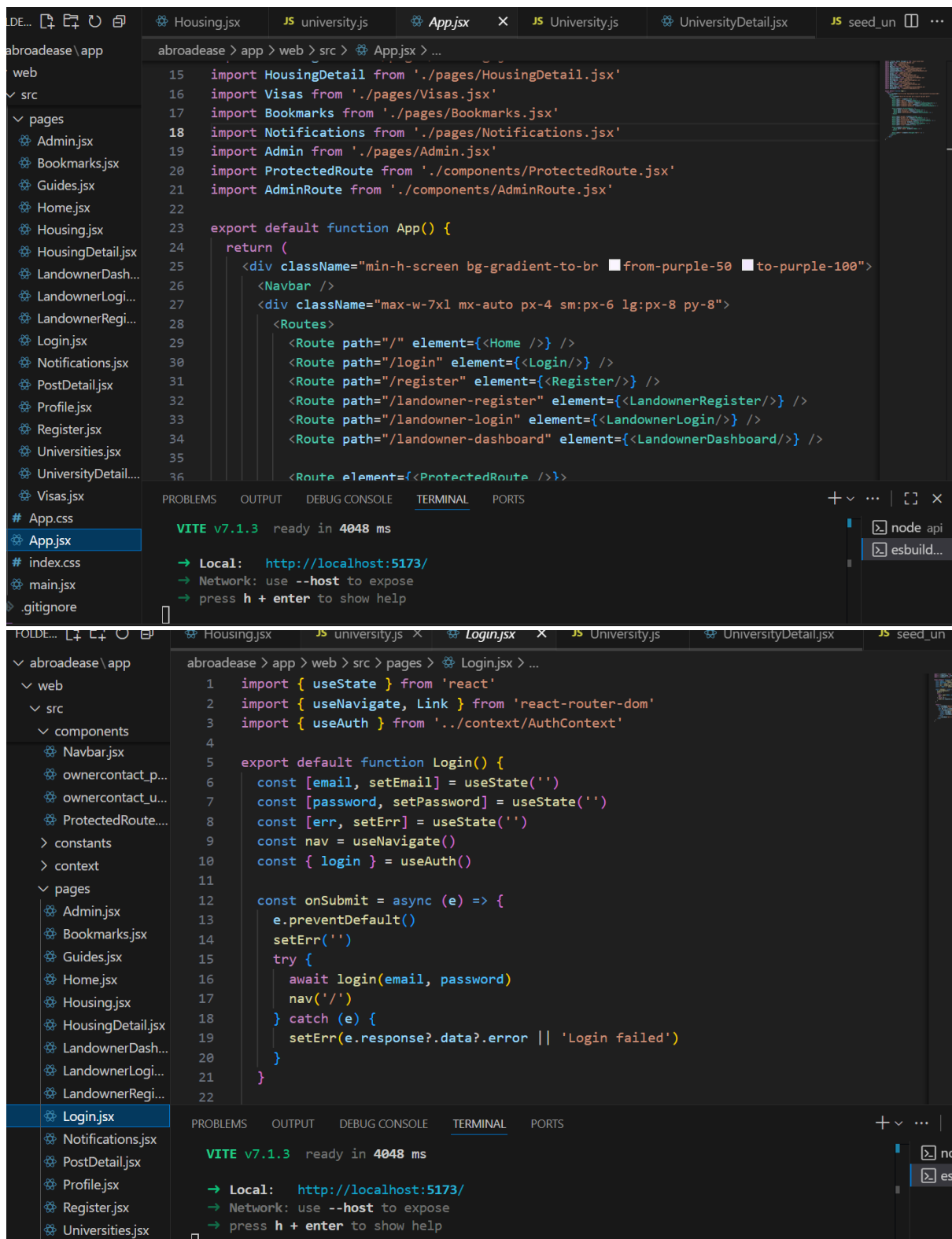 • Explain any academic challenges and how you overcame them.

  • Briefly recap your qualifications and motivations.
  • Express your eagerness to join the university community.
  • Thank the admissions committee for their time and consideration.

← Back to SOP Hub

5. Frontend Development

Attach at least 5 frontend code snippets with proper description.

```jsx
15  import HousingDetail from './pages/HousingDetail.jsx'
16  import Visas from './pages/Visas.jsx'
17  import Bookmarks from './pages/Bookmarks.jsx'
18  import Notifications from './pages/Notifications.jsx'
19  import Admin from './pages/Admin.jsx'
20  import ProtectedRoute from './components/ProtectedRoute.jsx'
21  import AdminRoute from './components/AdminRoute.jsx'
22
23  export default function App() {
24    return (
25      <div className="min-h-screen bg-gradient-to-br from-purple-50 to-purple-100">
26        <Navbar />
27        <div className="max-w-7xl mx-auto px-4 sm:px-6 lg:px-8 py-8">
28          <Routes>
29            <Route path="/" element={<Home />} />
30            <Route path="/login" element={<Login/>} />
31            <Route path="/register" element={<Register/>} />
32            <Route path="/landowner-register" element={<LandownerRegister/>} />
33            <Route path="/landowner-login" element={<LandownerLogin/>} />
34            <Route path="/landowner-dashboard" element={<LandownerDashboard/>} />
35
36            <Route element={<ProtectedRoute />}>
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

VITE v7.1.3  ready in 4048 ms

→ Local:    http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help
```

```jsx
1   import { useState } from 'react'
2   import { useNavigate, Link } from 'react-router-dom'
3   import { useAuth } from '../context/AuthContext'
4
5   export default function Login() {
6     const [email, setEmail] = useState('')
7     const [password, setPassword] = useState('')
8     const [err, setErr] = useState('')
9     const nav = useNavigate()
10    const { login } = useAuth()
11
12    const onSubmit = async (e) => {
13      e.preventDefault()
14      setErr('')
15      try {
16        await login(email, password)
17        nav('/')
18      } catch (e) {
19        setErr(e.response?.data?.error || 'Login failed')
20      }
21    }
22
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

VITE v7.1.3  ready in 4048 ms

→ Local:    http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help
```

abroadease > app > web > src > components > ⚙ Navbar.jsx > 🔷 Navbar

```jsx
 4    export default function Navbar() {
15
16      return (
17        <nav className="█bg-white border-b ■border-purple-200 shadow-sm">
18          <div className="max-w-7xl mx-auto px-4 sm:px-6 lg:px-8">
19            <div className="flex items-center justify-between h-16">
20              <Link to="/" className="flex items-center gap-2">
21                <span className="text-2xl">✈</span>
22                <span className="font-bold text-2xl ■text-purple-700">AbroadEase</span>
23              </Link>
24
25              <div className="flex items-center gap-1">
26                {user && <NavLink to="/guides" className={linkClass}>📑 Guides</NavLink>}
27                <NavLink to="/universities" className={linkClass}>🎓 Universities</NavLink
28                <NavLink to="/housing" className={linkClass}>🏠 Housing</NavLink>
29                <NavLink to="/visas" className={linkClass}>📄 Visas</NavLink>
30
31                {user && <>
32                  <NavLink to="/bookmarks" className={linkClass}>🔖 Bookmarks</NavLink>
33                  <NavLink to="/notifications" className={linkClass}>🔔 Notifications</Nav
34                  <NavLink to="/profile" className={linkClass}>👤 Profile</NavLink>
35                </>}
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
VITE v7.1.3  ready in 4048 ms

→ Local:   http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help
```

---

abroadease > app > web > src > api > JS axios.js > ...

```js
1    import axios from 'axios'
2
3
4    export const api = axios.create({
5      baseURL: '/api',
6      withCredentials: true, // send/receive httpOnly cookie
7    })
8
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
VITE v7.1.3  ready in 4048 ms

→ Local:   http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help
```

```
adease\app          abroadease > app > web > src > components > ⚙ AdminRoute.jsx > ...
                    1    import { Navigate, Outlet } from 'react-router-dom'
                    2    import { useAuth } from '../context/AuthContext'
de_modules          3
blic                4    export default function AdminRoute() {
                    5      const { user, loading } = useAuth()
pi                  6      if (loading) return <div>Loading...</div>
axios.js            7      if (!user || user.role !== 'admin') return <Navigate to="/" />
ssets               8      return <Outlet />
react.svg           9    }
omponents          10
AdminLandown...
AdminRoute.jsx
Navbar.jsx
ownercontact_p...
ownercontact_u...
ProtectedRoute....
onstants
ontext
ages            PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS                    + ∨  ...
Admin.jsx
Bookmarks.jsx      VITE v7.1.3  ready in 4048 ms
Guides.jsx
Home.jsx           → Local:    http://localhost:5173/
Housing.jsx        → Network: use --host to expose
```

6. User Manual

How a new user will navigate or use the system with screenshots.

AbroadEase: An Overseas Companion

Introduction

AbroadEase is a platform designed to simplify the initial queries students face when applying to study abroad. It provides a single, easy-to-use solution for finding information on visas, universities, housing, and writing a Statement of Purpose (SOP).

Getting Started: Sign Up and Login

To begin, a user must **sign up** or **log in** using an email address. This creates a personalized profile that allows access to all features and content. Once logged in, a user can update their profile, including their name, email, and resume.
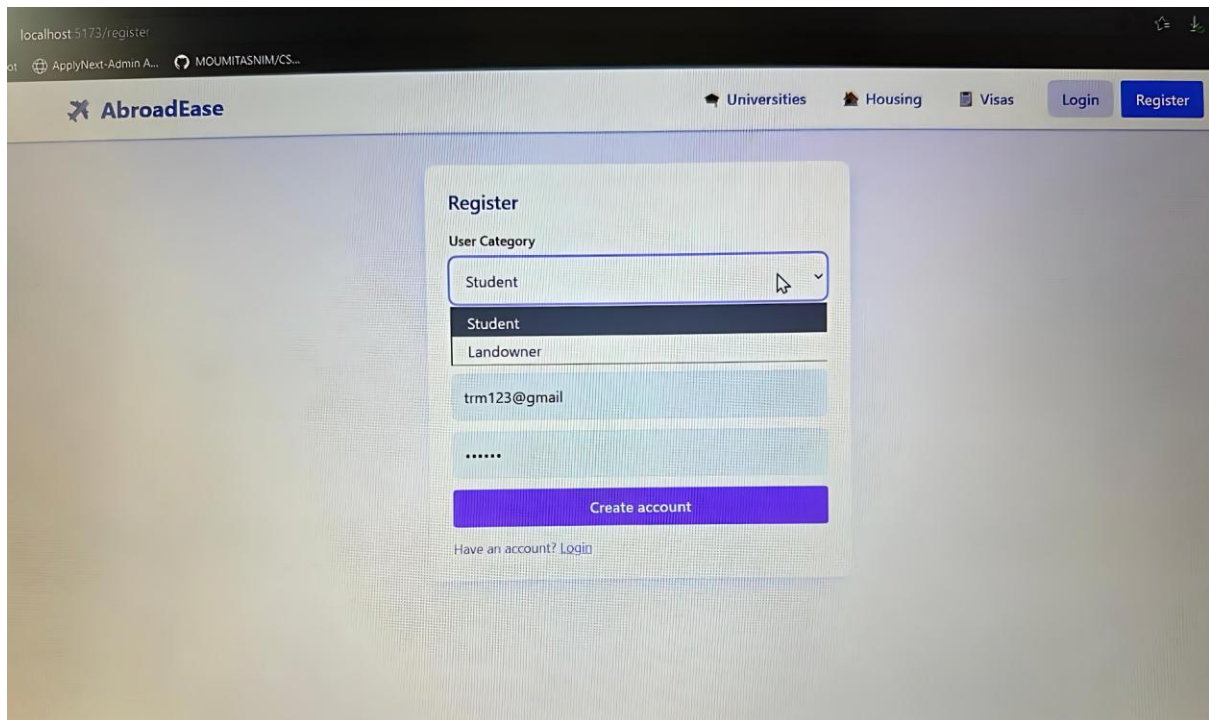
Profile update:
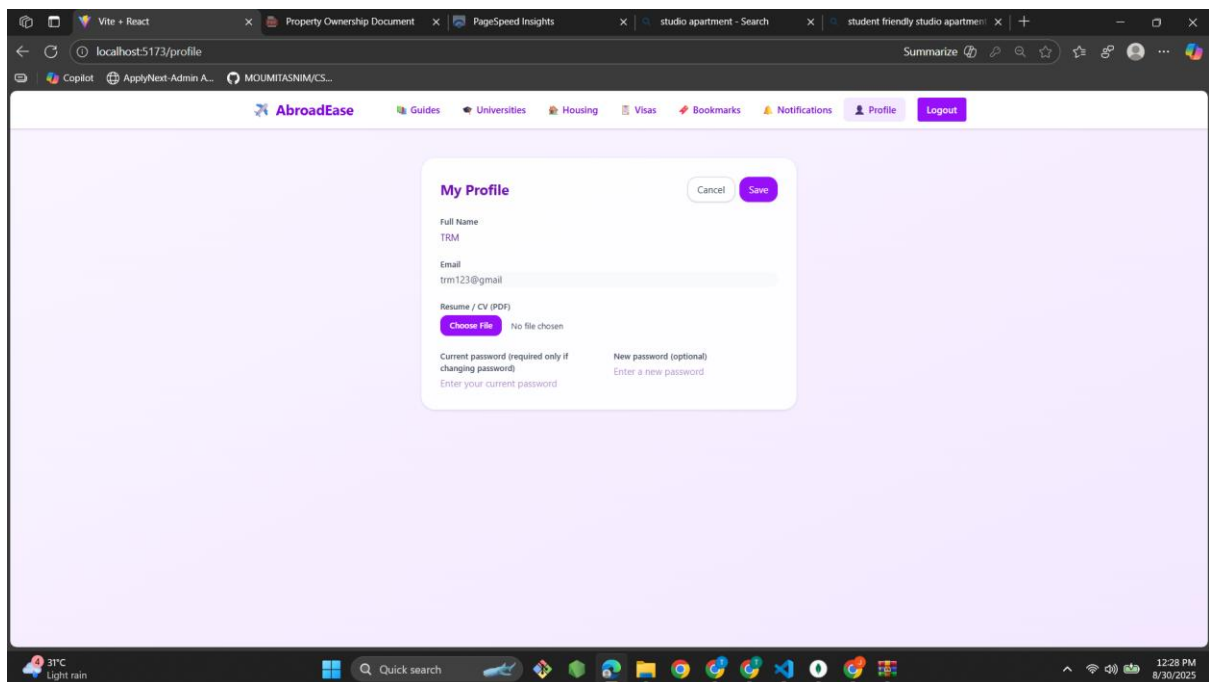
For Landowners: Registration and Verification

Landowners who wish to list properties on the platform must first register. An administrative team will verify a landowner's request for registration to the system. This process includes checking the request, viewing documents of property ownership, and then approving or deleting the request. Once approved, the landowner can access their dedicated dashboard.

Navigating the Platform

The platform is organized into three main modules:

1. **Visa and SOP Guidelines:** This section contains valuable information on visa requirements for various countries and instructions on how to write an effective SOP. Users can search for specific visa information using a dropdown menu. All posts related to SOP and visa guidelines can be bookmarked for future reference.

🛫 **AbroadEase** | 📚 Guides | 🎓 Universities | 🏠 Housing | 📋 Visas | 📌 Bookmarks | 🔔 Notifications | 👤 Profile | **Logout**
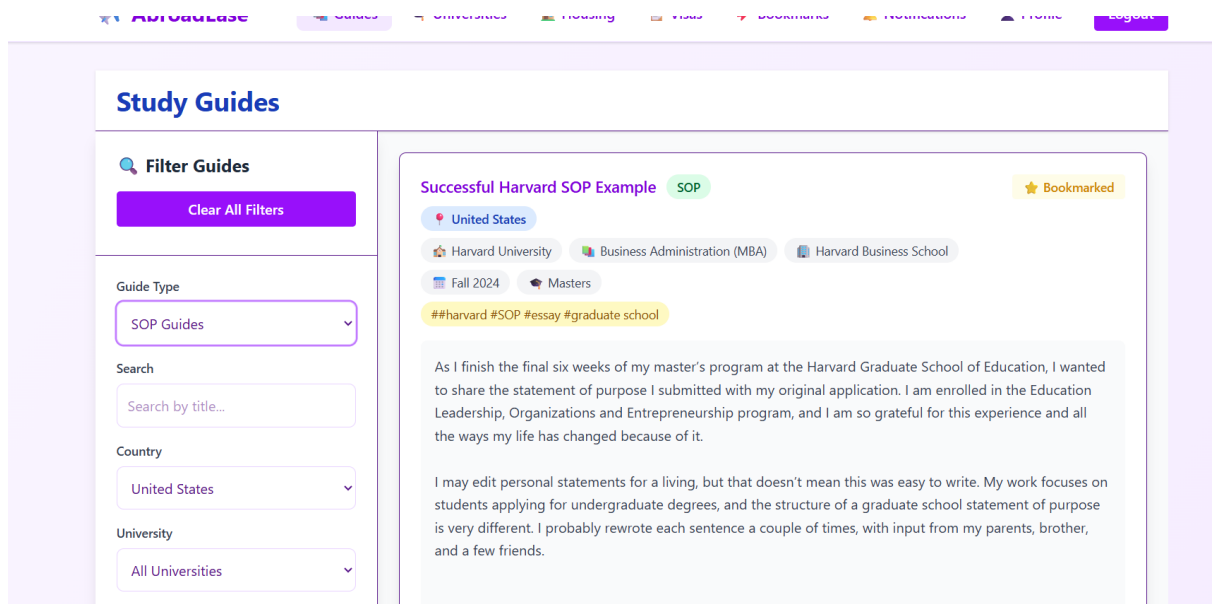
Study Guides

🔍 **Filter Guides**

Clear All Filters

Guide Type

VISA Guides

Search

Search by title...

Country

United States

Additional Docs for US visa   VISA   ⭐ Bookmarked

📍 United States

Review the instructions for how to apply for a visa on the website of the U.S. Embassy or Consulate where you will apply. Additional documents may be requested to establish if you are qualified. For example, additional requested documents may include evidence of:

The purpose of your trip,
Your intent to depart the United States after your trip, and/or
Your ability to pay all costs of the trip.

Evidence of your employment and/or your family ties may be sufficient to show the purpose of your trip and your intent to return to your home country. If you cannot cover all the costs for your trip, you may show evidence that another person will cover some or all costs for your trip.

Note: Visa applicants must qualify based on their ties abroad/to their home country, rather than assurances from U.S. family and friends. A letter of invitation or Affidavit of Support is not needed to apply for a visitor

2. **University and Housing Search:** This module helps find the right university and housing.
   ○ **Universities:** Users can search for universities by filtering by location, program, and cost. Each university profile provides details on the programs offered.
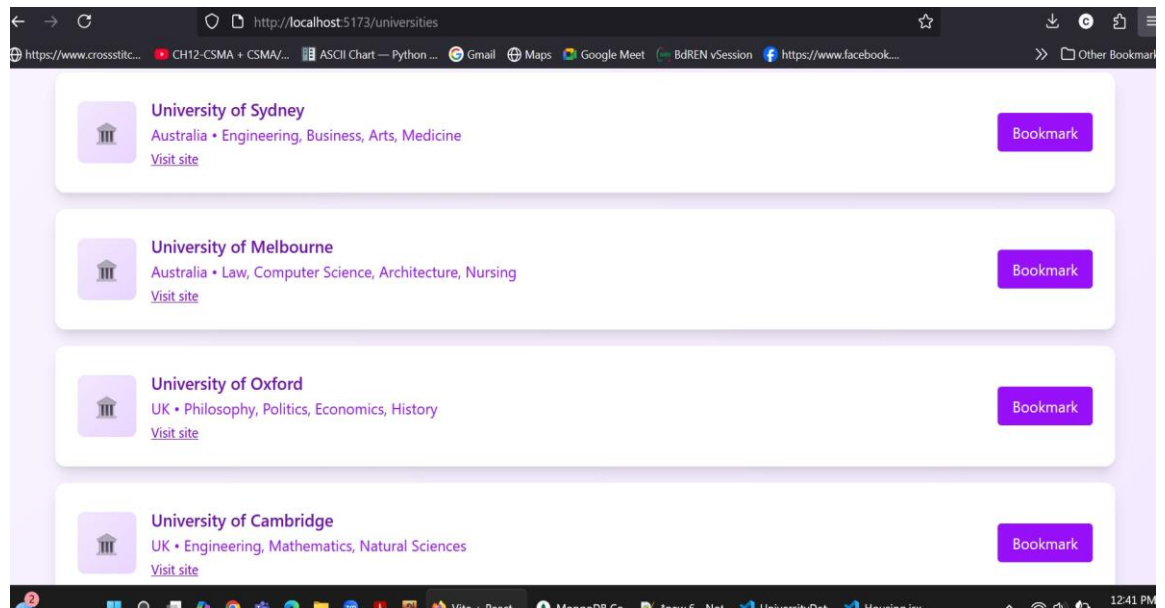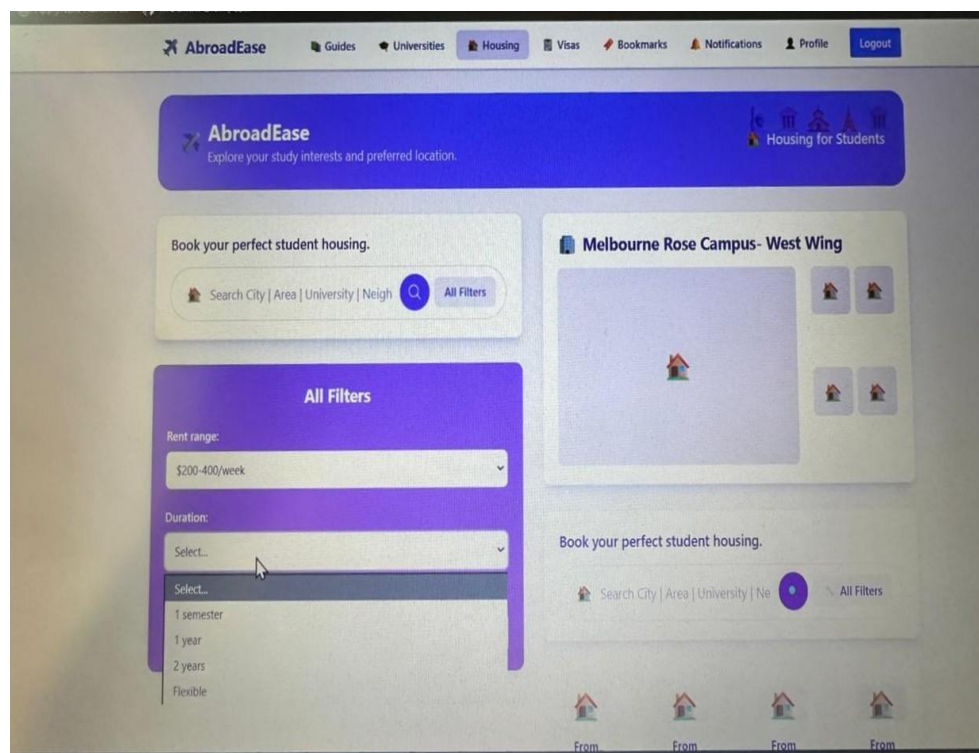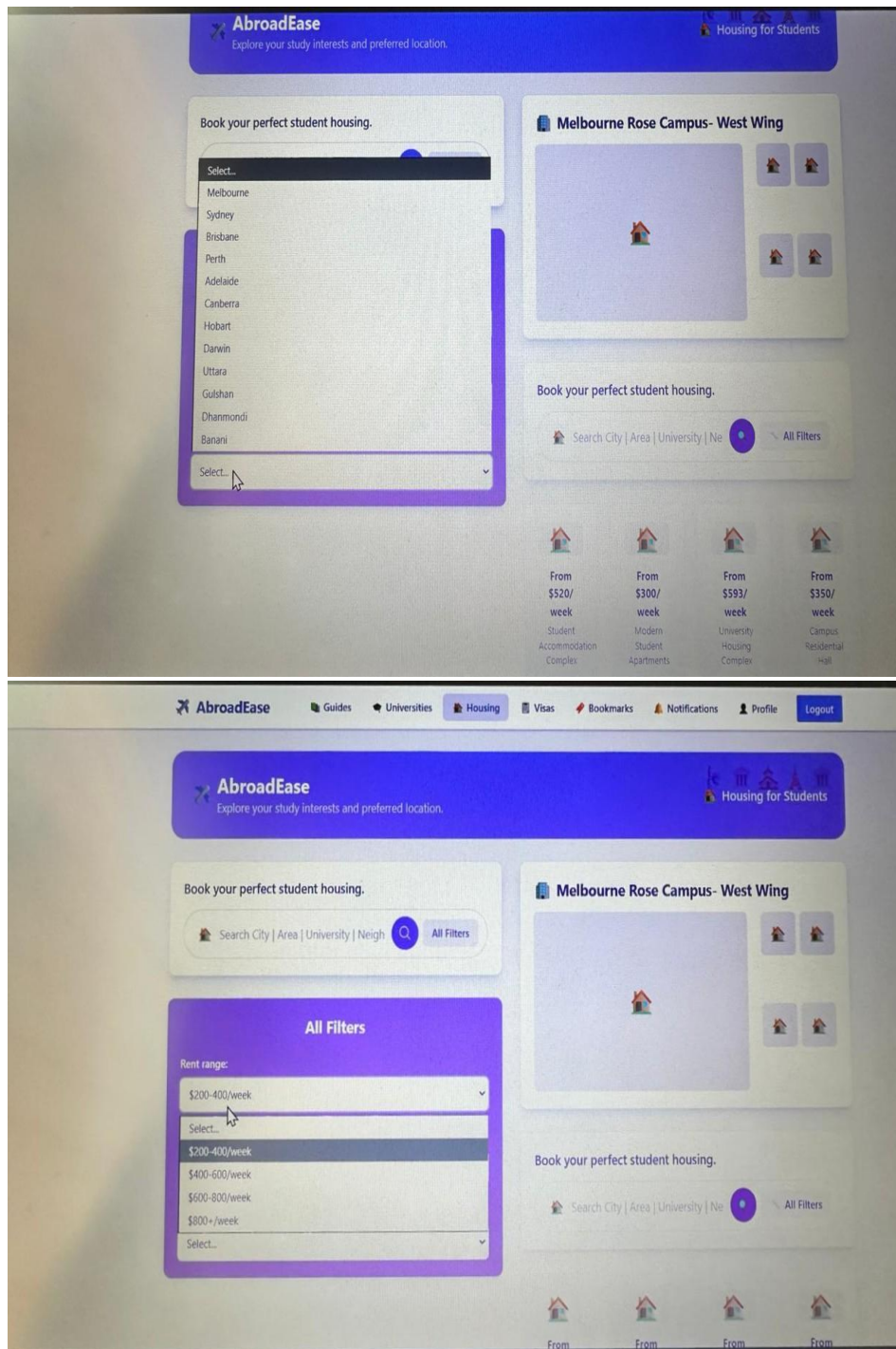
○ **Housing:** A search function allows users to find rental properties using filters like price, location, and property type. Property listings include photos, descriptions, and rental terms to help in making an informed decision.
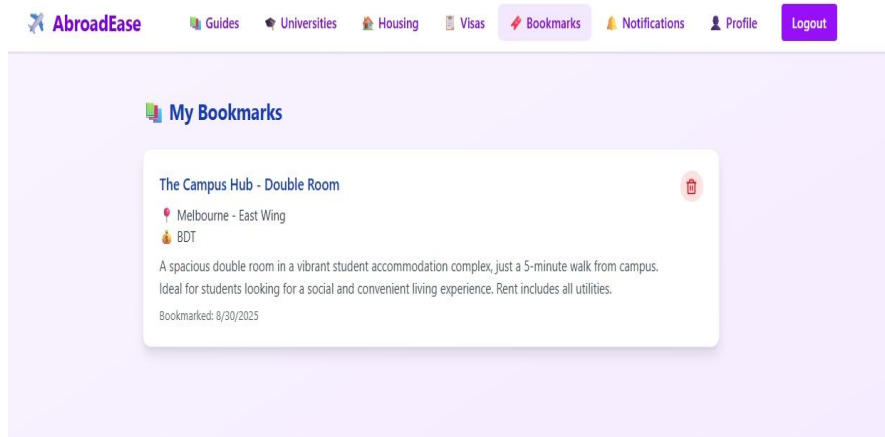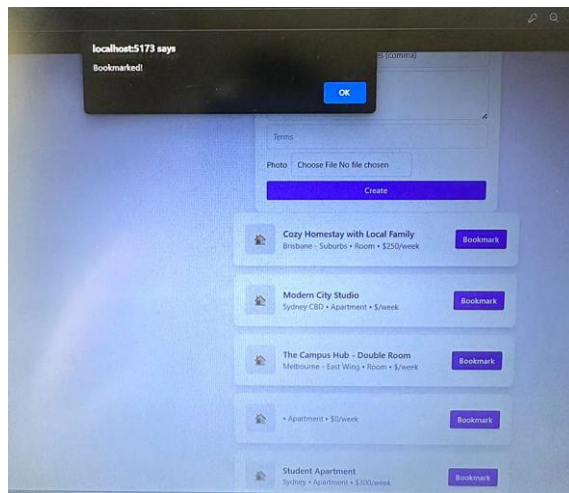
3. **Notifications and Bookmarks:** This module is designed to keep users updated and organized.

- ○ **Bookmarks:** Any content from the Visa, SOP, and Housing sections can be bookmarked and saved to a dedicated page for quick and easy access.

○

📚 My Bookmarks

The Campus Hub - Double Room 🗑️

📍 Melbourne - East Wing

💰 BDT

A spacious double room in a vibrant student accommodation complex, just a 5-minute walk from campus.
Ideal for students looking for a social and convenient living experience. Rent includes all utilities.

Bookmarked: 8/30/2025

New Rent Alerts: Users will receive notifications on the platform and via email when a new rental property is posted in a preferred location.
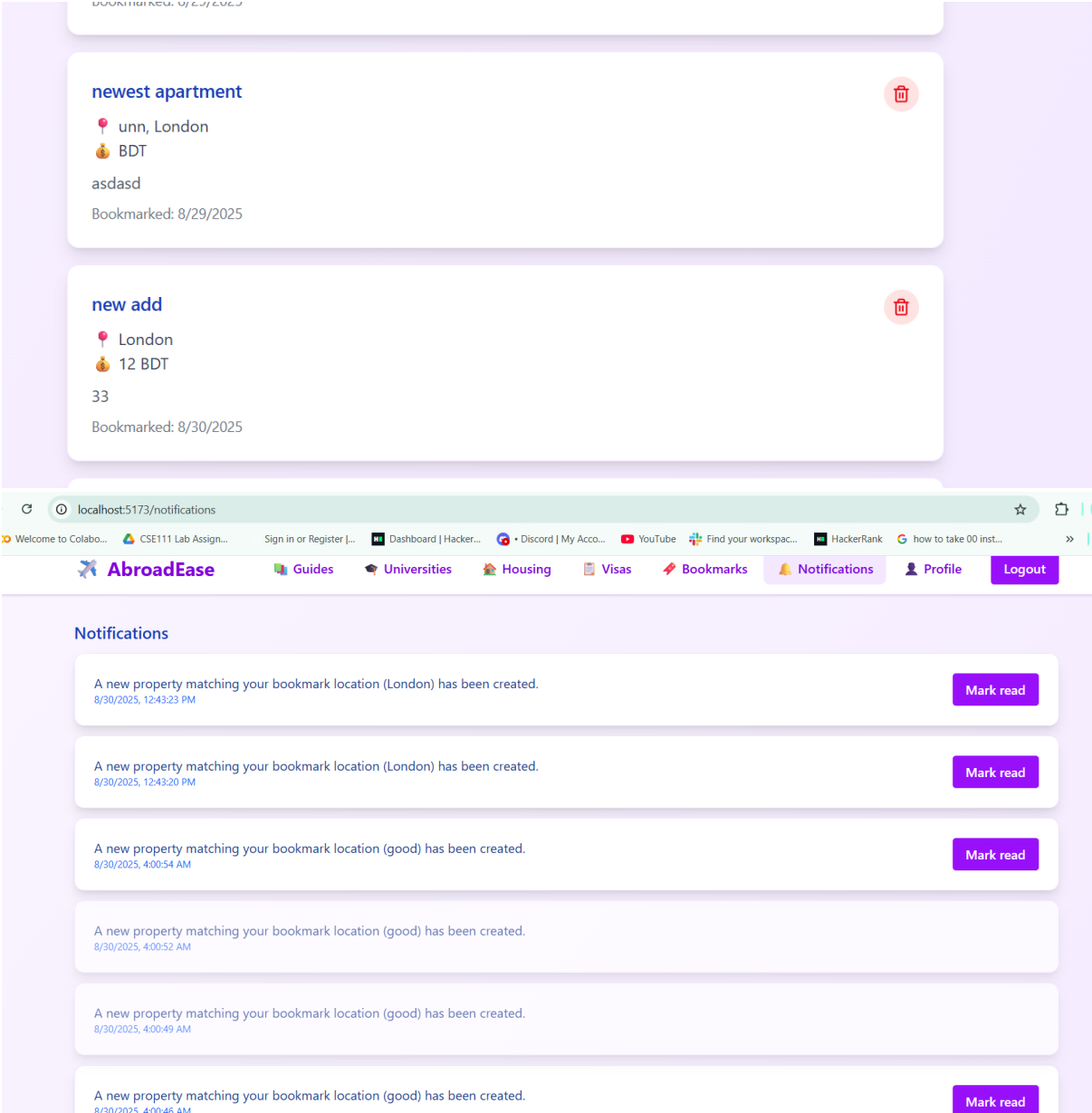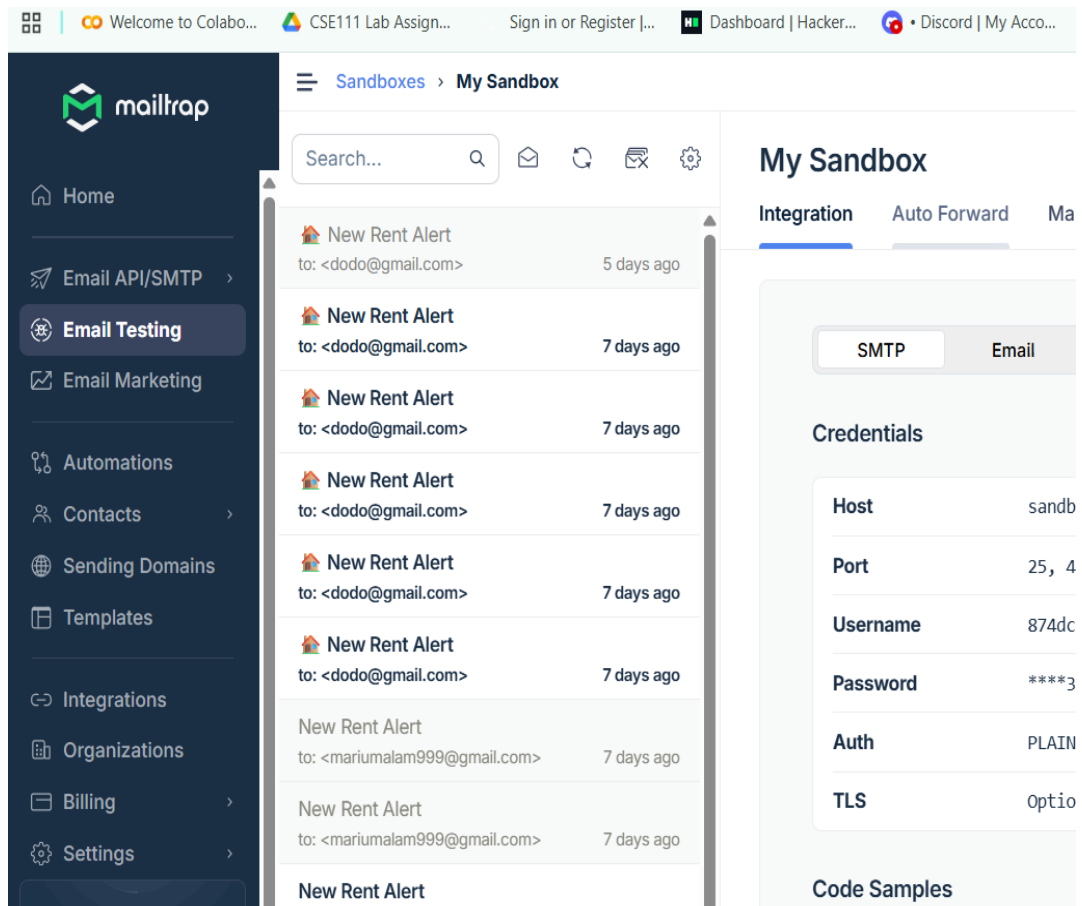
For Landowners: Managing Listings

Once approved, a separate dashboard is available for landowners to streamline the process of listing and managing rental properties. This dedicated area allows a landowner to:

- **Create a new listing:** Add a new property post by providing detailed information, including photos, a description of the space, rental terms, and a list of amenities.

- **Manage existing listings:** Update or remove property posts as needed, ensuring all information is accurate and up-to-date.

- **Track property status:** Mark a property as rented, which helps in managing availability.

- **Include contact information:** Ensure that contact details are associated with each listing, so authorized users can easily get in touch.

All property posts created by landowners are viewable by authenticated users on the main Housing page, making it easier to connect with prospective renters.

Landowner: Create Property

| Studio Aprtmenc | East London | 200 Pounds |

| Studio ▾ | Furnished (bed, desk, chair, wardrobe) |

private bathroom, making it ideal for a single student or a couple. The apartment is conveniently located a short walk from key public transport links, and is surrounded by local shops, cafes, and parks.

Lease: A 12-month fixed-term lease. Rent: A monthly rent of

Photo Choose File perfe...1.jpg ☒

Create

Book your perfect student housing.

🏠 london   ● ✎ All Filters

🏠	🏠	🏠	🏠
From $520/ week	**From $300/ week**	**From $593/ week**	**From $350/ week**
Student Accommodation Complex	Modern Student Apartments	University Housing Complex	Campus Residential Hall

Showing 1- 4 of 20 items
Page 1 of 5 ▶

Landowner: Create Property

Title   Location   Price

Apartment ⌄   Amenities (comma)

Description

Terms

Photo   Choose File No file chosen

Create

🏠 **Cozy Homestay with Local Family**
Brisbane - Suburbs • Room • $250/week   **Bookmark**

🏠 **Modern City Studio**
Sydney CBD • Apartment • $/week   **Bookmark**

🏠 **The Campus Hub - Double Room**
Melbourne - East Wing • Room • $/week   **Bookmark**

🏠 • Apartment • $0/week   **Bookmark**
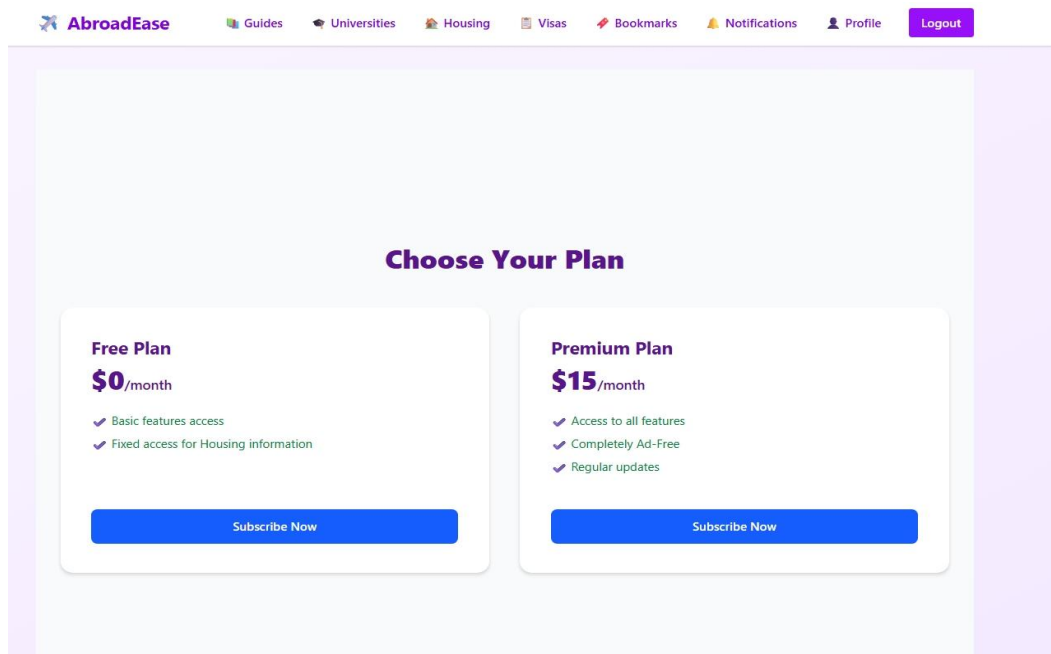
🏠 **Student Apartment**
Sydney • Apartment • $300/week   **Bookmark**

Subscription Plans

AbroadEase offers two versions to meet different needs:

7. **Free Plan:** This version allows access to all basic features, including browsing universities, housing, and general visa and SOP guidelines.
8. **Premium Plan:** This version, available for a subscription fee, offers additional benefits such as new rent alerts and the ability to bookmark content, providing a more personalized and streamlined experience. Users can choose to cancel their subscription at any time.
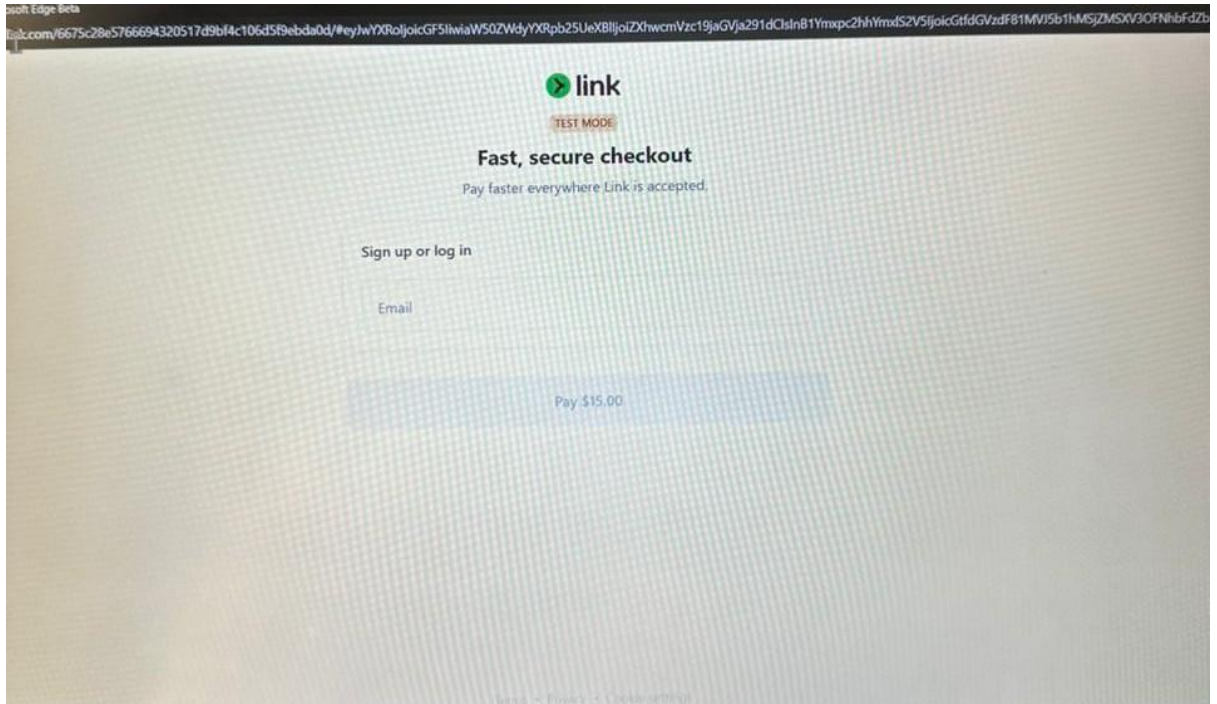
9. Performance and Network Analysis

Generate Performance and Network analysis report using lighthouse DevTool. Add screenshots of the report. Also, attach a screenshot of your system in any mobile viewport. **The system UI must be responsive.**

10. Github Repo [Public] Link:

https://github.com/UmmaMariumAlam/testerAbroadease.git

11. Link of Deployed Project :

Static: https://testerabroadease-11.onrender.com/register

12. Individual Contribution

Group member - 01	
Name: Umma Marium Alam	Student ID:22201096
Functional Requirements which are developed by this member:	
1. All Users can give bookmarks to desired or likeable contents, like SOP and Visa post, Properties, Universities.	

2. Users can view all their bookmarks in a designated page
3.Users will get notification via website in designated notification pages, where they can mark as read, and through email (using email api) when landowners upload a new rent place with the same location of user preferences. (from bookmarked properties)
4.Stripe implementation where students can choose from free and premium account and can cancel subscription if they want

Group member - 02	
Name: Jerin Khan	Student ID: 21301617
Functional Requirements which are developed by this member:	
1.User can get information on how to write SOP and different directions and guidelines through posts	
2.User can get information on how to write SOP and different directions and guidelines through posts	
3.Admins can add, update, or remove rental listings and mark properties as rented.	
4.Users can view and update their profile information, such as name, email, CV, resume. The change password feature allows users to update their login credentials.	

Group member - 03	
Name: Cynthia Safa	Student ID: 22301618
Functional Requirements which are developed by this member:	
1. Students or landowners will sign up, then login using their email address. They can also log out on the homepage. They can view their profile.	
2. Users can get general information (instructions and requirements) regarding visas of different countries by using dropdown search for filtering.	
3. Users can see universities by filtering universities by location, program, and cost.	
4. Users can search rental properties using filters such as price, location, and property type.	

Group member - 04	
Name: Tasnim Rahman Moumita	Student ID: 22301689
Functional Requirements which are developed by this member:	
1.Landowner will have a separate dashboard, and there he/she can create property posts with contact information which can be viewed by authorized users.	
2. Admin will be able to write posts regarding SOP instructions.	
3.Admin will write visa guidelines for different countries.	
4.Landowner's each listing includes property photos, descriptions, rental terms, and amenities for better decision-making.	

13.   References

Opportunities Circle. (2018, December 4). *Explore Opportunities -*

Opportunities Circle. https://www.opportunitiescircle.com/?sfid=143

https://www.opportunitiescircle.com/?sfid=143#google_vignette