



MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY

CSE 464 (SOFTWARE DEVELOPMENT PROJECT-II)

bEDsh: Developing a Study Abroad Guide Oriented Mobile Application

Group A8

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Contents

1	Introduction	2
2	Target Users	2
3	Literature Studies	2
3.1	Complexity of Study abroad journey for Bangladeshi Students:	2
3.2	Existing solutions related to easing the pain points:	2
3.3	Analysis through heuristic Evaluation:	3
3.4	Existing Apps/Systems Review	3
3.5	Research Gap	4
4	Problem Statement and Identification	5
5	Objectives	5
6	System Modeling & Design	5
7	Feature List	7
8	Technologies Adapted in The Application Development	8
9	Developed System	8
10	Ethical Concerns	8
11	Societal Impacts	9
12	Design Changes	9
13	Lifelong Learning	11
14	SUS Usability Testing Score and Average Task Completion Time	12
15	Future Work	13
16	Work Distribution	13
17	Conclusion	13

1 Introduction

Preparing to study abroad is a heinous journey for students, especially Bangladeshi students due to the lack of information and infrastructure resources. Last year, more than 70,000 students applied, but only around 14,000 visas were granted, with appointment delays sometimes extending to 2026 due to various reasons [1]. From choosing programs to visa appointments, Bangladeshi youths struggle to make amends and prepare accordingly.

The proposed platform is an all-in one mobile application called bEDesh, prepared to serve students along their whole journey from start to end providing features such as real-time information regarding programs, admission process, scholarship and visa requirements, community hub and accommodation lists so students can gather help even after moving on to study abroad.

To cater to this need, we developed bEDesh, a mobile application for Bangladeshi students looking to study abroad. The app features personalized search by degree, country, or field; peer networking; curated content; and guidance on standardized tests and scholarships. Through the use of technology with local needs, bEDesh aims to empower students to make informed, confident decisions, reducing the barriers and democratizing access to global education opportunities.

2 Target Users

The main target users of the **bEDesh** app are students. Specifically, our target users are:

1. **Global students** — those who plan to study abroad and want to explore universities, programs, and scholarships, as well as navigate toward the most suitable institutions.
2. **Bangladeshi students** — for whom the app makes the process of finding and applying to foreign universities easier and more accessible.
3. **Students seeking accommodation** — those who want to find safe housing options and potential roommates near their universities abroad.
4. **Students looking for connections** — those who wish to connect with peers studying in the same city or university to build networks and friendships.

3 Literature Studies

Bangladeshi youths are forced to journey through complex, confusing web of deadlines connected to documents and requirements in order to finally obtain the opportunity to gain knowledge in a better place. These pain points require a all in one platform ready to guide students until the end.

This literature review section thoroughly analyzes related studies to gain insight into the proposed project breaking papers into three thematic sections:

- Complexity of Study abroad journey for Bangladeshi Students
- Existing solutions related to easing the pain points
- Analysis through heuristic Evaluation

3.1 Complexity of Study abroad journey for Bangladeshi Students:

Lack of automated procedures, real-time information regarding scholarship and admission updates, confusion regarding visa documents handling and financial dread are the primary challenges Bangladeshi students face [2]. Similarly, turbulence while choosing suitable country, university and programs, variability in grading systems, and quality and accessibility of foreign universities create significant hurdles for students [3].

3.2 Existing solutions related to easing the pain points:

Online application and management system with visa and scholarship tracking providing system alerts profoundly reduces the manual effort, errors and time required to previously prepare for study abroad [4]. Correspondingly, providing essential information regarding admission procedures, visa requirements, and cultural adaptation assists students notably [5]. Finally, language learning support, cultural navigation tools along with location-based services like maps and directions, real-time chat or messaging for maintaining contact with family and friends substantially eases the path of communication after moving abroad [6].

3.3 Analysis through heuristic Evaluation:

Nielsen's 10 usability heuristics helps assess platform's design and functionality from the perspective of Human-Computer Interaction (HCI) reveals whether there are usability problems and lack of adherence to core HCI principles such as consistency, user control, and error prevention ultimately understanding user's perspective [7]. Moreover, heuristic evaluation also helps regarding developers create more usable, user-friendly applications tailored to the specific needs of the platform [8].

3.4 Existing Apps/Systems Review

We reviewed five existing study abroad applications relevant to higher education students—College Dunia, Yocket, Common App, IDP Live, and Edvoy—to learn about current digital solutions assisting students throughout their global education process. This review was imperative in order to assess features, user-friendliness, and limitations of existing systems, gaining an insight into the extent to which they cater to students' needs like application management, counseling, and decision-making. These apps were chosen based on their availability, popularity, and pertinence on markets such as Google Play Store to ensure easy access to a large user base. The analysis enabled us to determine areas of gaps and potential for improvement in future app development. Table 1 is a tabular representation regarding the review of Existing 5 relevant apps.

Table 1: Technologies Adapted in The Application Development

App Name	Key Features	Key Limitations
CollegeDunia ¹	<ol style="list-style-type: none"> 1. College and program searches, filtered by categories such as city, tuition fees, admission requirements, and eligibility. 2. Visa and departure guidance using static content 3. Q&A section answered and reviewed by peers based on payment. 4. Admission time assistance, from exam guidance to profile evaluation. 	<ol style="list-style-type: none"> 1. Completely India-centric. 2. Lack of Community feature among peers. 3. There is no verified accommodation option 4. No storage for documentation 5. Data safety and trust issues. 6. Poor User interface, sporting frequent bugs.
Yocket ²	<ol style="list-style-type: none"> 1. Search University and country feature 2. Program filtering feature based on peer profiles. 3. Application tracking and document support 4. Peer network feature for tips and discussion. 5. Premium feature offering Statement of purpose/Letter of Recommendation documents editing, mock interview, and mentorship packages 	<ol style="list-style-type: none"> 1. Mostly India-centric from reviews, referrals, to transaction options. 2. Unreliable Information and data analysis. 3. Inconsistent and slow document review. 4. Expensive compared to features and quality. 5. There is no verified accommodation option 6. No option for tracking daily costs.

¹Available: <https://play.google.com/store/apps/details?id=com.collegedunia>

²Available: <https://play.google.com/store/apps/details?id=in.yocket>

Table 1: Technologies Adapted in The Application Development

App Name	Key Features	Key Limitations
IDP Live ³	<ol style="list-style-type: none"> 1. Globally recognized study abroad platform 2. Owner of IELTS 3. University and courses matching utilizing AI 4. Fast response and university offer based on secure document upload feature 5. Application tracking feature 6. Q & A session, interview based on peer experience 7. Live chat option via Counselors. 	<ol style="list-style-type: none"> 1. Most features are available through IDP counselors. 2. Lacks self-service features 3. There is no verified accommodation support 4. Lacks cost-tracking or budgeting options 5. There is no peer network feature
Edvoy ⁴	<ol style="list-style-type: none"> 1. Mainly a counselling platform for students 2. One-to-one mentorship support 3. Assistance regarding the application process, Visa procedure, and financial planning. 4. Collaboration with Universities 	<ol style="list-style-type: none"> 1. Expensive to use 2. No peer network feature 3. There are no local cost-tracking or budgeting options for helping students with financial planning
Common App ⁵	<ol style="list-style-type: none"> 1. Centralized College Application Dashboard 2. Comprehensive College Search Engine 3. Integrated Recommendation Management System 4. Cross-Platform Application Accessibility 5. Automated Application Submission and Tracking 	<ol style="list-style-type: none"> 1. No back button 2. Missing navigation bar 3. Form fields lack proper labels and accessibility considerations 4. Frequent re-login required 5. Excessive scrolling required 6. Dense information architecture in sidebar navigation makes it difficult to understand current location 7. Dashboard lacks information

3.5 Research Gap

After analyzing existing study abroad applications like College Dunia, Yocket, IDP Live, Edvoy, and Common App, a significant research gap emerges. Current platforms are predominantly single country-centric, lack comprehensive peer networking features, and don't provide verified accommodation services. Most importantly, no existing application specifically addresses the unique challenges faced by students, including cultural barriers, local payment methods. Additionally, existing apps operate in isolation - focusing only on university search or counseling - rather than providing an integrated solution that combines university search, peer connection, accommodation booking, and community support in a single platform tailored for international students' study abroad journey.

³Available: <https://play.google.com/store/apps/details?id=com.idp.study.abroad>

⁴Available: <https://play.google.com/store/apps/details?id=com.edvoy.studentapp>

⁵Available: <https://play.google.com/store/apps/details?id=org.commonapp.apply>

4 Problem Statement and Identification

The problems identified from the literature review and study of Bangladeshi students' challenges in pursuing higher education abroad are summarized as follows:

1. Many students struggle to find the right universities, programs, and scholarships that align with their academic and financial requirements, due to scattered and unorganized information sources.
2. The process of filtering universities based on tuition fees, global rankings, and available programs is often overwhelming, leaving students confused and uncertain about their choices.
3. Students lack a structured platform to connect with peers heading to the same city or university, which prevents the formation of early support networks and increases feelings of isolation.
4. Even after securing admission, students face significant challenges in finding safe, affordable, and verified accommodation. The prevalence of scams and unreliable sources adds to the stress of relocation.
5. Accommodation-related information such as availability status, booking options, and room features is often scattered across multiple informal platforms, making it difficult to plan ahead.
6. Current platforms do not adequately allow students to post, share, and exchange real-life experiences about studying abroad, limiting their access to authentic peer-driven guidance.
7. Students face difficulties in booking accommodation for future dates with clarity on price ranges, room types, and availability timelines, creating uncertainty during transition periods.
8. There is no single mobile application that integrates all essential services—university search, scholarship discovery, peer networking, and accommodation management—into a seamless user experience. Existing apps are either fragmented, region-specific, or not tailored to the unique complexities of Bangladeshi students' study abroad journey.

5 Objectives

The objectives of the University Abroad Help Guide Application are as follows:

1. To enable students to seamlessly search, filter and compare universities, programs, courses, and scholarship opportunities in preferred locations.
2. To connect students with peers traveling to the same city or university, thereby building early support networks and fostering community.
3. To provide safe, reliable and affordable housing options tailored for international students.

6 System Modeling & Design

In bEDesh app, student is the main user that interacts with client and here the app is the client. bEDesh app serves as the main user device. Students interact with the app to perform actions such as searching universities or posting requests. Again, app is run successfully through the backend server which contains the API Gateway and Application Logic to perform the actions. Mobile UI sends requests like- Post a request or search universities to the server. And the server with the help of database, returns the desired information like-user data, university data and community posts to the students. Figure 1 shows the system architecture of the complete mobile application.

Main actor of bEDesh is User, so our first entity is the User. Figure 2 shows the schema representation of the database.

- User has fields like-id, email, created_at, password, mobile_number, university, city name, image
- Using user id, users can connect with peers, can post, can message and can find accommodation. This user-id is a foreign key in peer-connect, post, messages and accommodation entity.
- User to messages- 1 to N relationship.
- User to posts- 1 to N relationship.
- User to accommodation - 1 to 1 relationship.

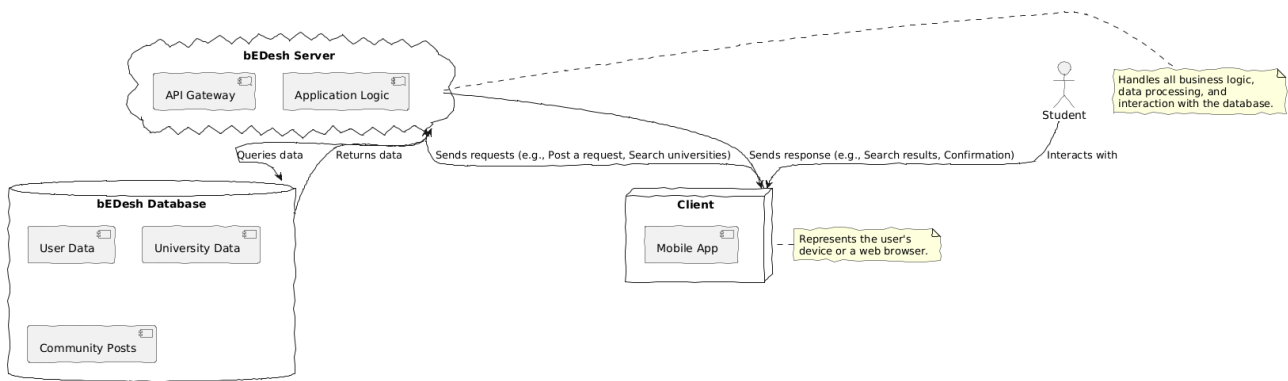


Figure 1: Methodological Work Flow.

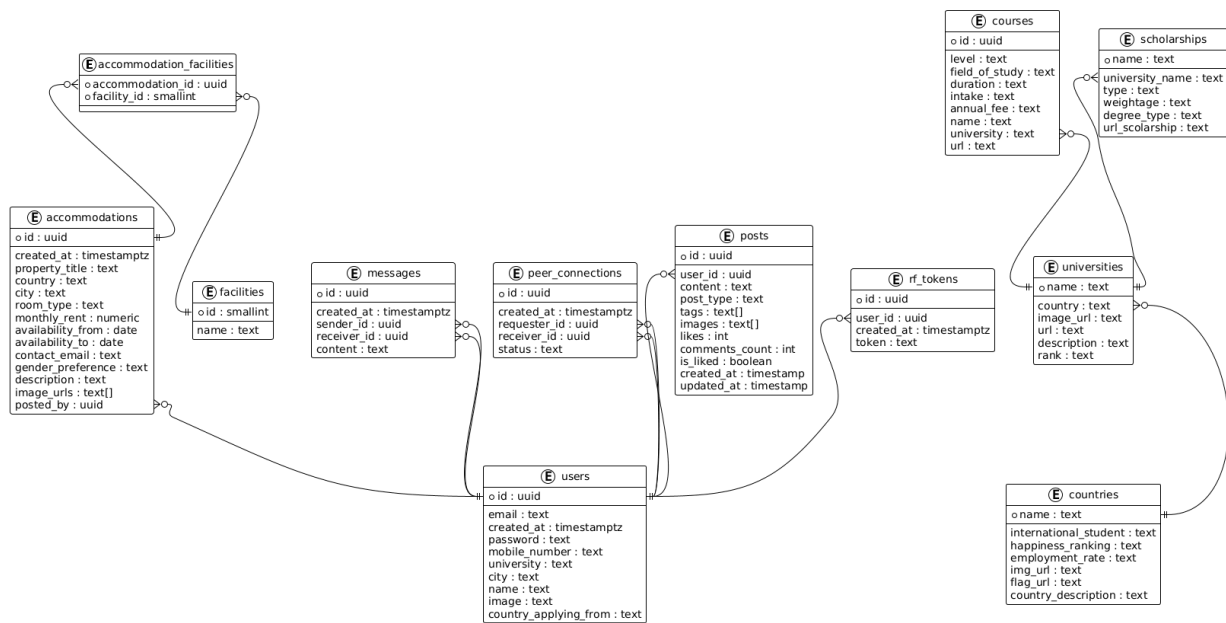


Figure 2: Methodological Work Flow.

- User to accommodation - 1 to N relationship.
- User to Ref_token-1 to 1 relationship
- Again Accommodation to Accommodation_facilities-1 to N relationships
- facilities to Accommodation_facilities-M to N relationships
- Country to University-1 to N relationship
- And university to courses and scholarships-N to N relationship

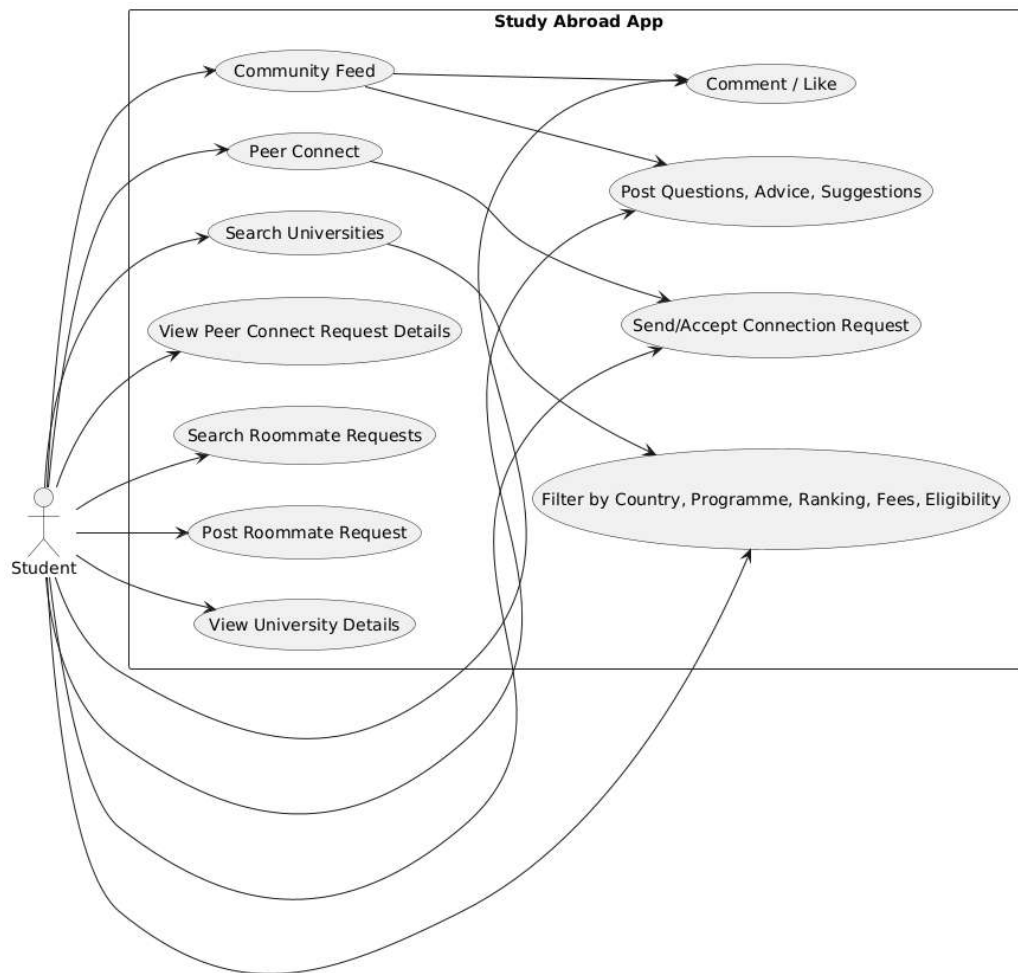


Figure 3: System Use Case Diagram

bEDesh app is a study abroad app that is dedicated to students and they are the only user of this app. The use case diagram as shown in Figure 3 represents:

- **Community Feed:** Through this app, students can post their questions, experiences, tips and also can comment or like other students' posts.
- **Peer Connect:** Through this app, students can send or accept connection requests and can view peer request details.
- **Search Universities:** Students can search and filter universities by country, program, ranking and fees and can view university details.
- **Search Roommate Requests:** Students can look for roommates based on university and country and can also post roommate requests.

7 Feature List

The key features of the proposed University Abroad Help Guide Application are as follows:

- **University and Programme Search and Filter:**
 - Search universities by country, program, global ranking, tuition fee, and eligibility criteria.
 - Apply advanced filters to personalize search results based on individual preferences.
 - Access official university websites directly by clicking on the individual university interface within the mobile app.
- **Accommodation Helper:**

- Explore verified, student-friendly, and shared accommodation options abroad.
- View comprehensive property details including pricing, photos, amenities, and landlord contact information.
- **Scholarship and Course Search:**
 - Browse available scholarships by country, program, and university.
 - Automated system fetches scholarship deadlines through data scraping, with built-in reminders to reduce manual effort.
 - Students can set personalized alerts for upcoming deadlines.
 - Access detailed scholarship and course information by clicking on individual university interfaces in the mobile app.
- **Peer Connect:**
 - Find and connect with students heading to the same city or university.
 - Use direct messaging and group chats to build early friendships, study groups, or travel networks.
 - Access in-app community chat groups with two options:
- **Community Chat:**
 - **Same University Groups:** Connect with peers enrolled in the same institution to share academic resources and experiences.
 - **Same City Groups:** Connect with students residing in the same destination city to exchange advice on travel, accommodation, and local lifestyle.

8 Technologies Adapted in The Application Development

Table 2 is a tabular representation of the existing technologies used in this system.

9 Developed System

Based on the system modeling methodological workflow, Figure 4 & Figure 5 consists of 12 user interfaces of the screenshots. The UI is focused on Nielsen's 10 heuristics. Looking at the comprehensive UI screenshots from the bEDsh mobile application, the interface demonstrates a thoughtfully designed educational platform that prioritizes user experience through clean, modern aesthetics and intuitive navigation. The home dashboard effectively organizes core functionalities through easily identifiable icons and quick-access features. The university search interface showcases sophisticated filtering capabilities with country-specific results, detailed institutional information, and visual elements like university images and statistical data presented in an accessible card-based format.

The application's social and accommodation features reveal a comprehensive approach to addressing international students' holistic needs beyond academic requirements. The peer connect functionality demonstrates mature social networking capabilities with profile management, connection requests, and integrated messaging systems that facilitate meaningful student interactions. The accommodation search and details screens show practical consideration for students' housing concerns, featuring detailed property listings with essential information like pricing, amenities, and booking capabilities. The community feed and scholarship information sections indicate robust content management systems that support knowledge sharing and resource discovery. Throughout all interfaces, the consistent navigation patterns, responsive design elements, and logical information architecture suggest careful attention to user experience principles, creating a cohesive ecosystem that addresses the complex journey of studying abroad through a single, well-integrated platform.

10 Ethical Concerns

- No personal dataset was collected or used during the development and deployment of the application.
- The application does not include or process any images captured from cameras; hence, no visual data is stored or analyzed.
- No microphone or location access permissions are required or utilized, ensuring user privacy is maintained.
- Users' consent for camera, microphone, or location access was not necessary, as the app does not request or collect such sensitive information.

Table 2: Technologies Adapted in The Application Development

Category	Technology	Justification for Adoption
Front-end Framework	Flutter	<ul style="list-style-type: none"> • Cross-platform development with single codebase for iOS and Android • High performance with native compilation • Rich UI components and customizable widgets • Strong community support and Google backing • Hot reload for faster development cycles
	Node.js	<ul style="list-style-type: none"> • JavaScript runtime enabling full-stack JavaScript development • Excellent performance for I/O intensive applications • Large ecosystem of packages via NPM • Event-driven, non-blocking architecture
Backend Framework	Express.js	<ul style="list-style-type: none"> • Minimalist and flexible web application framework • Fast development with minimal boilerplate code • Extensive middleware support for modular architecture • RESTful API development capabilities • Large community and comprehensive documentation
	Supabase	<ul style="list-style-type: none"> • Open-source Firebase alternative with PostgreSQL backend • Real-time subscriptions and live data synchronization • Built-in authentication and authorization • Auto-generated REST and GraphQL APIs • Row Level Security (RLS) for data protection • Integrated file storage capabilities
Database	Git/GitHub	<ul style="list-style-type: none"> • Version control for collaborative development • Code repository management and backup • Branch management for feature development
	Postman	<ul style="list-style-type: none"> • API testing and documentation • Request/response validation • Team collaboration on API development
	VS Code	<ul style="list-style-type: none"> • Integrated development environment • Extension support for Flutter, Node.js, and database management • Debugging and IntelliSense capabilities

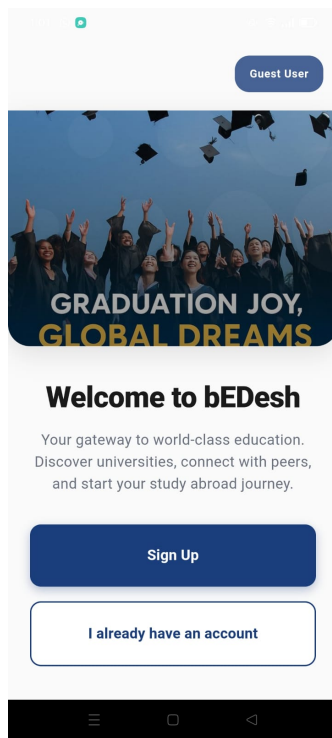
11 Societal Impacts

Effect on app users, organizations, environment etc.

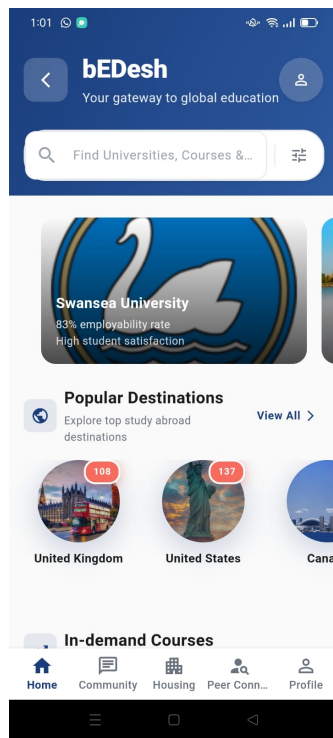
- **Empowering Students of All Walks:** bEDsh will offer the same quality information to low-income students from remote parts of the country and disadvantaged students as to privileged students. This gives an equal chance to everyone to pursue higher studies abroad irrespective of their economic position.
- Builds a support network for students so they don't feel alone in a new country.
- Saves time and reduces stress for both students and their families.
- Encourages transparency and reduces fraud in accommodation and admission services.
- **Assisting Educational Institutions:** Universities and colleges too will benefit from having a platform where they can reach out to Bangladeshi students directly. It reduces their marketing cost and helps them choose the right candidates better.
- **Environmental Benefits:** By digitalizing the whole study abroad procedure, the app reduces the amount of printing multiple documents, trips to different consultancy offices, and paper-based application systems. It helps in preserving the environment and having sustainable practices.

12 Design Changes

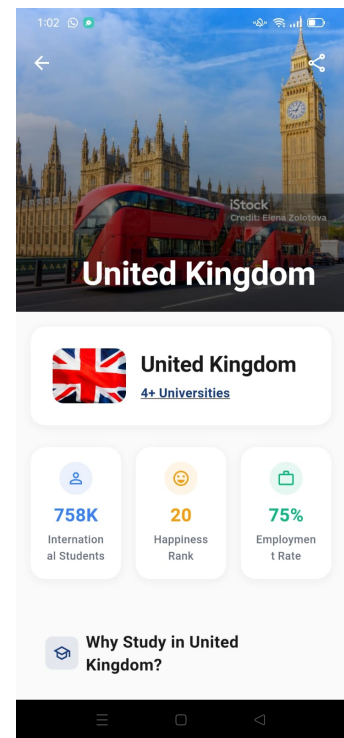
In the app there were minor changes suggested by the instructors, but The changes in the UI implemented after faculty feedback are discussed below:



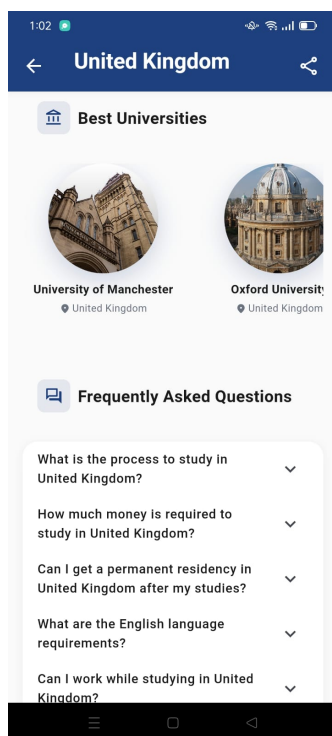
(a) Onboarding Page



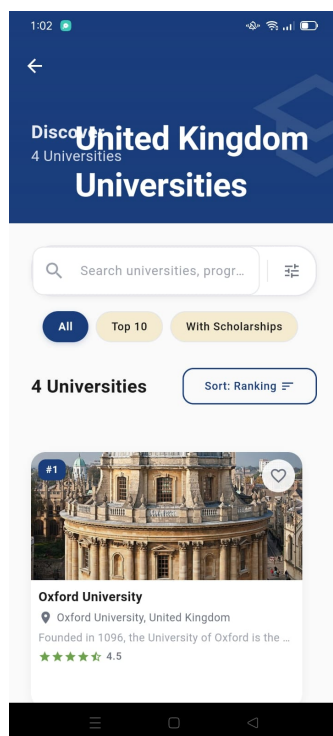
(b) Home Dashboard



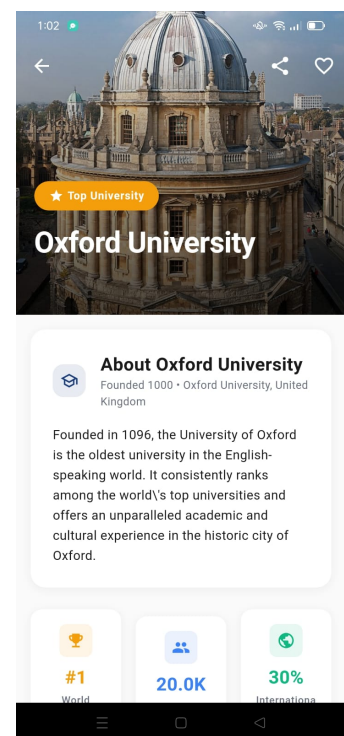
(c) Destination Page



(d) University Search



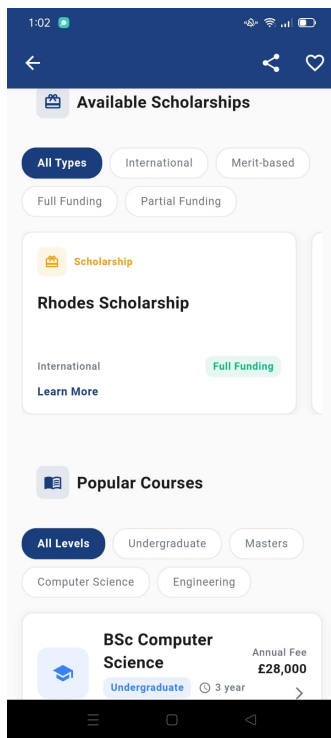
(e) Explore University



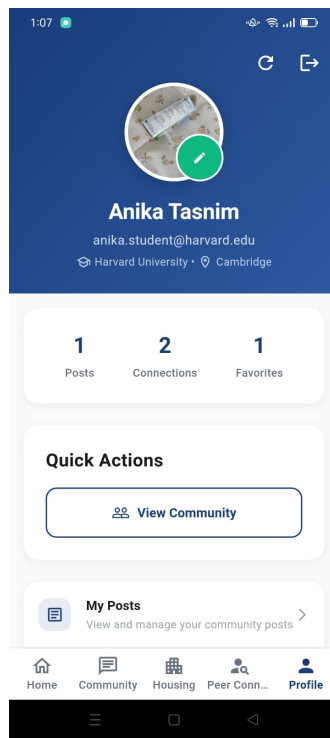
(f) Peer Connect

Figure 4: bEDsh Mobile Application User Interface Screenshots

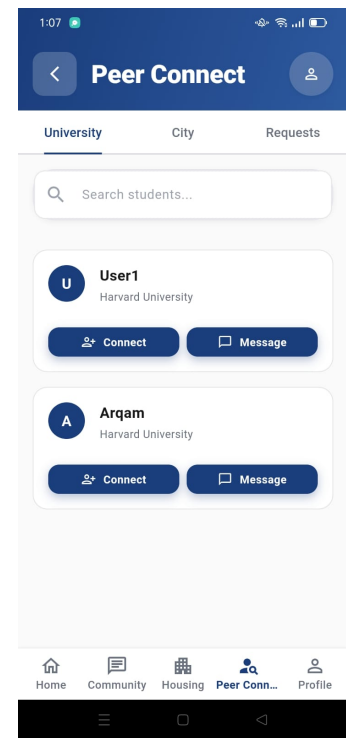
- Improved Search and Filter System: Faculty pointed out that the search results were showing too much information at once, making it hard to compare options. We redesigned the filter system to show universities in a card-based layout with only the most important details (name, country, fees, ranking) visible initially, with an option to expand for more details.
- Initially the FAQ (Frequently Asked Questions) portion was not implied, hampering the Neilson's 10 Heuristic violation number H10. Small FAQ portions were added in the system also.



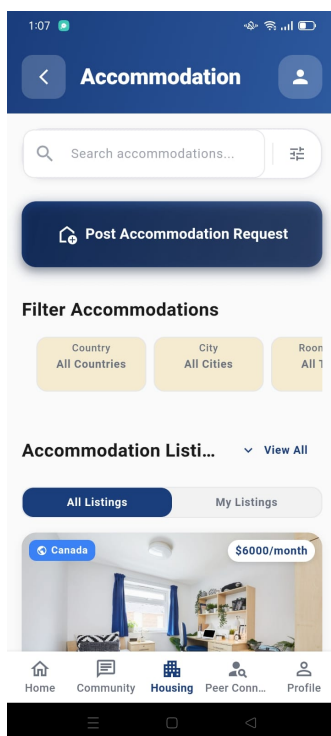
(a) Scholarships Filter



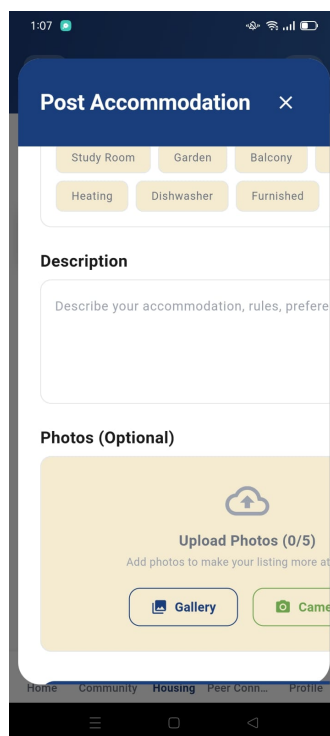
(b) Profile



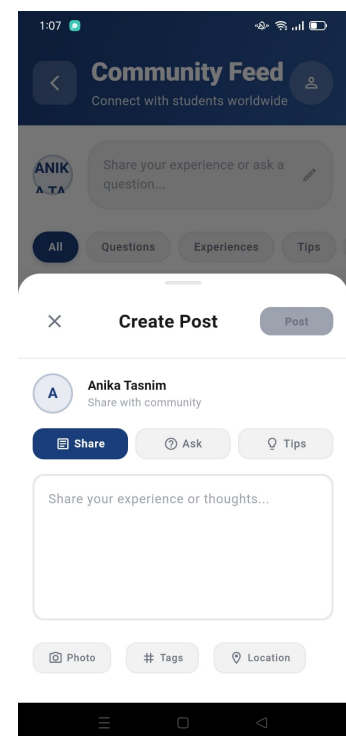
(c) Peer Connect



(d) Accommodation Details



(e) Post Accomodation



(f) Community Feed

Figure 5: bEDsh Mobile Application User Interface Screenshots, in continuation with sets of Figure 4

- Initially The search criteria for selecting a topic was scattered, instructors pointed out and suggested to focus on a single country, completing that portion will help in integrating other countries.

13 Lifelong Learning

Skill to use the app in daily life by users and skill to use knowledge of creating an app in the future

- Problem Solving Skills in Real-life:** bEDsh taught us how to identify real problems that ordinary

people encounter in our society and engineer technological solutions to them. This skill can be used to address other issues of society, including access to healthcare, job searching, or marketing local businesses in Bangladesh.

- **Technical Competencies for Future Career:** The experience of working with Flutter, Node.js, and database management has provided us with actual programming capabilities that are in high demand in the job market. These technologies are implemented in top companies all over the world, and our members become more competitive in the tech industry.
- **User Research and Design Thinking:** Through carrying out surveys, interviews, and usability testing with actual students, we learned how to understand what users require and design for them. This user-driven design process is applicable in any field, be it business or social work.
- **Project Management and Teamwork:** Through collaboration on a sophisticated app project with multiple features, timelines, and team members, we gained invaluable project management skills. We learned to divide work, coordinate different aspects of development, and deal with issues that arise throughout the process.

14 SUS Usability Testing Score and Average Task Completion Time

Task completion time testing is a crucial usability evaluation method that measures how efficiently users can perform specific tasks within the bEDsh application. This testing was essential to validate the app's user interface design and ensure that core functionalities like university search, peer connection, and community interaction are intuitive and time-efficient for Bangladeshi students. The evaluation was conducted with two independent evaluators who performed identical tasks while being timed from app launch to task completion. Each evaluator was asked to close the app, start a timer, open the app, complete the assigned task, and record the completion time. The three main tasks tested were university search with filtering capabilities, peer connection based on university and city preferences, and community post viewing and sharing. The results showed consistent performance across evaluators, with average completion times ranging from 9.5 to 10.5 seconds, indicating that the app's design successfully provides quick and efficient user interactions. The overall average task completion time of 10 seconds demonstrates that bEDsh meets usability standards for mobile applications, where users expect immediate responses and seamless navigation. Table 3 shows the task completion time conducted by two users. A seaprate report for SUS and task completion time is attached at the end of main report.

- Close the app
- Start Timer
- Open the app
- Finish Task
- End Timer
- Note down time in the table below

Table 3: Task Completion Time

Task Name	Task Description	Time Re-quired for Evaluator 1 (in Sec-onds)	Time Re-quired for Evaluator 2 (in Sec-onds)	Average Time Re-quired (in Seconds)
University Search on Filter	Users search for universities by creating a filter, scholarship and exploring fellowship	11 sec	10 sec	10.5 sec
Peer Connect	Users can connect with peers based on university and city	9 sec	10 sec	9.5 sec
Community	View post and share posts	11 sec	9 sec	10 sec

Average Task Completion Time = 10 sec

15 Future Work

Areas of improvement and growth

- **Artificial Intelligence Integration:** We intend to incorporate an AI chatbot that is capable of responding to regular queries regarding studying abroad, visa policies, and university admissions 24/7. The AI would be trained from user interactions and offer personalized suggestions based on the profile, grades, and preferences of every student.
- **Financial Planning and Scholarship Matching:** In subsequent releases, we intend to incorporate a complete financial calculator that helps students estimate overall expenses for studying abroad, e.g., tuition charges, living expenses, and travel costs. We would also want to include an automated system for matching with scholarships based on the educational background of the student and the financial need.
- **Virtual Campus Tours and Video Calling:** We intend to include video calling features so that students can talk face-to-face with other students as well as university administrators. Also, we want to include virtual reality campus tours so that students can have a look at universities and accommodation before making a decision.
- **Parental Involvement Features:** Recognizing the significant role that parents must play in study abroad decision-making within Bangladeshi society, we plan to create a distinctive parent portal in which families can track their child's application process, discover fees, and communicate with other parents going through the same.
- **Alumni Network Participation:** We also want to connect present students with Bangladeshi alumni who are already residing abroad and pursuing studies or working in their host nations. It will provide mentorship and inside knowledge on foreign life, career prospects, and cultural adaptation.
- **Multi-language Support:** In order to make the app available for all students regardless of educational backgrounds in Bangladesh, we intend to include Bengali language support in addition to English to make it more convenient for students who are not entirely familiar with English to utilize the platform.
- **Embassy and Government Integration:** Future editions could be interfaced with Bangladesh embassy services and government records to obtain real-time data on visa processing time, required documents, and official announcements about studying abroad.
- **Post-arrival Support Services:** We want to include the application to continue assisting students even after they arrive in their destination countries, with the amenities of securing part-time employment, local laws and customs, and keeping in contact with home.

16 Work Distribution

The filled up Work Distribution is attached in the end of the main report.

17 Conclusion

bEDesh is an all-in-one mobile platform that help and guide students in their study abroad journey. Through this app, students can find universities in their desired country and also can view that respective university's courses and scholarships that are available in the university. Besides, accommodation, community and peer-connect are the unique feature of bEDesh. Through the community feature, students can share posts, experiences, and tips and through the peer-connect feature, students can connect with peers based on university and city and chat with them directly. Again, through the accommodation feature, students can search their houses and roommates before moving abroad. Thus, bEDesh app aims to give an overview to the students about studying abroad and simplify their journey.

References

- [1] Campus Desk, "Why studying abroad is becoming harder for Bangladeshi students," The Daily Star, Thu Feb 27, 2025. [Online]. Available: <https://www.thedailystar.net/rising-stars/news/why-studying-abroad-becoming-harder-bangladeshi-students-3834336>, Last accessed: 14 September 2025.
- [2] A. Deb Nath and M. Chowdhury, "Silver Lining: A Mobile Application Featuring Student Welfare Facilities For the Bangladeshi University Students," in Proceedings of the 2022 2nd International Conference on Intelligent Technologies (CONIT), IEEE, pp. 1-6, 2022.
- [3] S. Granato, E. Havari, G. Mazzarella, and S. V. Schnepf, "Study abroad programmes and student outcomes: Evidence from Erasmus," Economics of Education Review, vol. 99, pp. 102510, 2024.
- [4] E. Blancaflor, P. A. I. C.ás, L. J. H. Rocamora, J. I. Y. Rosete, and W. Rey, "APPLY: A Design of an Online Tertiary Level Scholarship Application Management System," in Proceedings of the 2022 International Communication Engineering and Cloud Computing Conference (CECCC), IEEE, pp. 74-78, 2022.
- [5] T. Neroda and L. Slipchyshyn, "Web-Based Service Development for Intellectual Maintenance of the Personalized Educational and Professional Program: Adaptive provision of educational services in academic mobility context through automated improvement of quality and relevance of tutorial content," in 2022 IEEE 17th International Conference on Computer Sciences and Information Technologies (CSIT), IEEE, pp. 256-259, 2022.
- [6] A. P. Mroz and T. Thrasher, "Proficiency development and smartphone usage in study abroad: Microgenetic longitudinal case studies of French learners," Foreign Language Annals, vol. 55, no. 2, pp. 455-493, 2022.
- [7] M. Nazrul Islam, Md M. Karim, T. Tahmid Inan, and AKM Najmul Islam, "Investigating usability of mobile health applications in Bangladesh," BMC Medical Informatics and Decision Making, vol. 20, no. 1, pp. 19, 2020.
- [8] S. Alam Suha, M. N. Islam, Shammi Akter, M. C. Bhowmick, and R. Halder, "Assessing usability of mobile applications developed for autistic users through heuristic and semiotic evaluation," in Proceedings of the International Joint Conference on Advances in Computational Intelligence: IJCACI 2021, Springer, pp. 25-39, 2022.