



جامعة النجاح الوطنية

An-Najah National University

كلية الهندسة | Faculty of Engineering

وحدة الجودة والاعتماد - مركز ABET

Quality and Accreditation Unit - ABET Center



## Cover page

Project Title: UniNest

Academic Year: 2025

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### Format:

- Single space, Times New Roman.
- 12 pt,
- Maximum 1 page.

### Abstract Body:

#### Items must be provided in the Abstract:

- Why do you think this project is important? Please explain the significance of this Project in brief.
- In your point of view what are the important aspects that should be covered in the project?
- Objective(s): In your view, please explain the main objectives of the project.
- Methodology: Give a brief outline of the application development process.
- Had this project been done before? Are there any similar applications available today?
- **Note:** Please deliver this abstract early to ensure that your Project has been approved by the department's projects committee. **Registration will not be done without this approval.**



### Project's Abstract:

UniNest aims to develop a web-based platform designed to help university students easily find verified apartments for rent or sale near their campuses. The system addresses the common challenges students face in locating safe, affordable, and conveniently located housing by centralizing listings and connecting them with trusted landlords.

The significance of this project lies in its potential to reduce housing search time, minimize fraud, and improve accessibility through a student-centered digital marketplace. It provides a structured, secure, and user-friendly environment tailored to student needs, including features such as roommate matching, budget filtering, and commute distance calculation.

Key aspects of the project include:

- Implementation of a searchable listing system.
- Verification process for students and landlords to prevent fraudulent listings.
- Roommate matching feature based on preferences and university credentials.
- Admin dashboard for content moderation and analytics.
- Integration with Google Maps API for location-based search and distance estimation.

The main objectives are:

- To create a centralized housing platform dedicated to university students.
- To ensure trust and safety through verified accounts and listings.
- To enhance search precision with customizable filters and smart suggestions.
- To enable scalability for multiple campuses and universities.

The methodology involves developing the frontend using **React or Flutter** and the backend using **.NET or Spring Boot** with **PostgreSQL** as the database. APIs such as Google Maps will be integrated for location services. Testing will focus on usability, performance, and security.

While existing platforms like Facebook Marketplace and local real estate sites provide general listings, UniNest distinguishes itself by focusing exclusively on student housing, incorporating verification mechanisms and academic-oriented search filters to ensure relevance and safety.