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## ROOMIE RADAR - Smart Roommate Finder Portal

By

**K. NIVEDITHA**  
**P. AJAY KUMAR**  
**A. S. SABIHA AFRIN**

**224G1A0563**  
**224G1A0502**  
**224G1A0588**

Under the esteemed guidance of

**Mrs. S. Sunitha**, M.Tech., Ph.D.  
Assistant Professor



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**SRINIVASA RAMANUJAN INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)  
ANANTHAPURAMU**

(Affiliated to JNTUA and Approved by AICTE, New Delhi)  
(Accredited by NAAC With 'A' Grade & Accredited by NBA (EEE, ECE & CSE))

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**Project Coordinator**

**Head of the Department**

# **ROOMIE RADAR - Smart Roommate Finder Portal**

## **ABSTRACT**

Roomie Radar is an integrated roommate-accommodation management platform designed to optimize shared living experiences through intelligent matchmaking and secure booking workflows. The system employs a structured preference-acquisition model and a weighted compatibility-scoring algorithm to accurately match users based on lifestyle factors, habits, budget constraints, and personal preferences, thereby reducing mismatches and improving long-term roommate satisfaction.

Roomie Radar ensures system integrity through email verification, secure login, and structured user profiling, while offering a unified PG/hostel search and booking module for accessing verified listings and completing secure reservations. It also integrates digital contract generation and real-time in-app chat to support instant communication and legally valid agreements, all backed by a structured database and API-driven architecture that efficiently manages user data, listings, and compatibility-based matches.

By combining compatibility-driven roommate matching, secure authentication, unified accommodation booking, digital documentation, and live communication into a single ecosystem, Roomie Radar provides a technically robust, scalable, and user-centric solution that addresses the major gaps in current PG/hostel and roommate-finding systems.

## **PROJECT GUIDE**

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