A képen szöveg látható

Automatikusan generált leírás

**Smart Dormitory Access Control System**

Database Plan

Team

*FreeCredit*

IT Project Work

2025

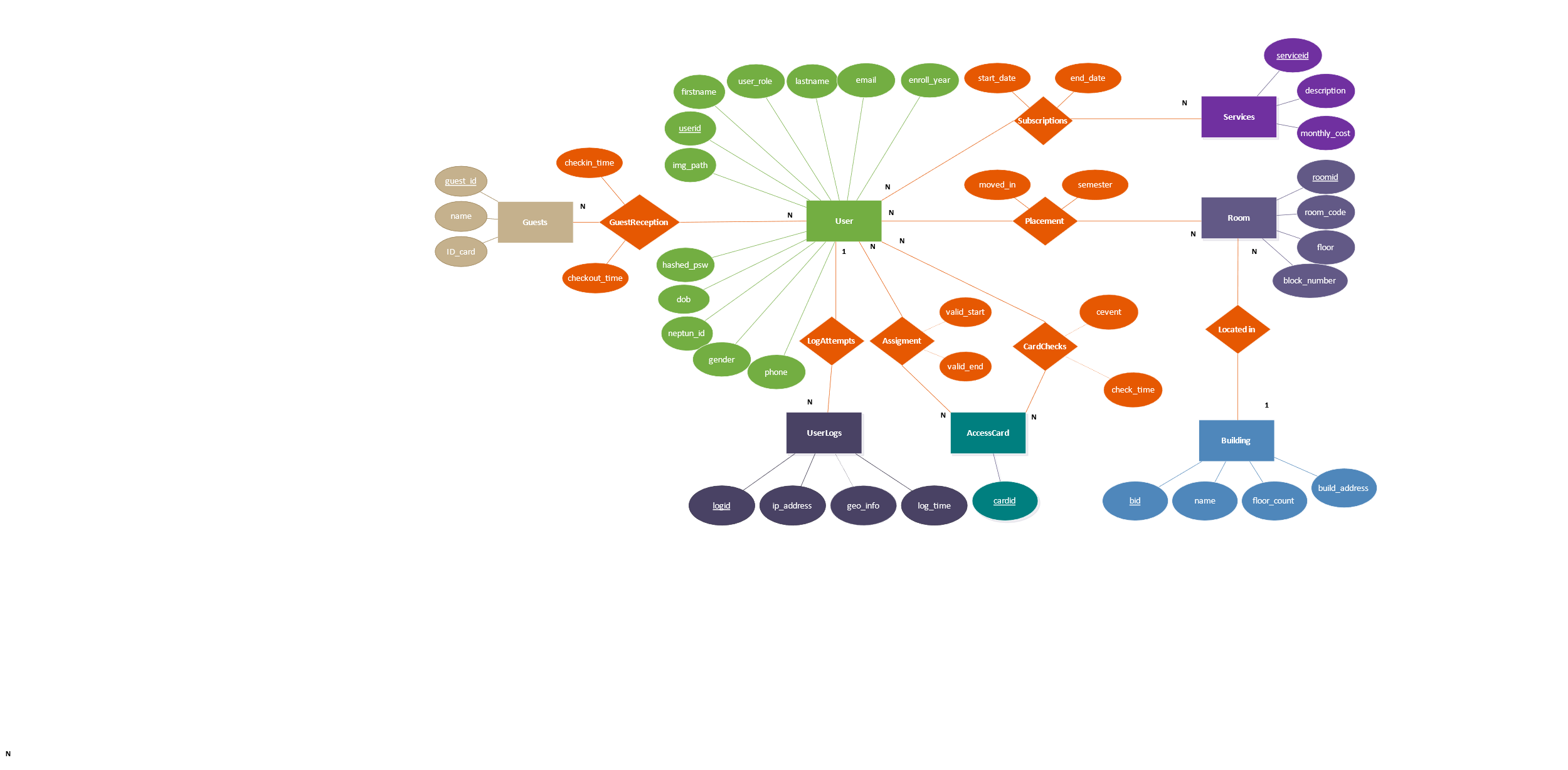
1. **Requirement Catalog and Entity-Relationship Diagram**

As part of our project, we aim to develop an automated dormitory access control and monitoring system that simplifies student entry using NFC cards. At the same time, it provides valuable insights for dormitory staff by tracking the number of students currently present and maintaining room assignments efficiently.

Our design process began with analyzing the data storage requirements necessary for these functions, following the principles of relational database modeling.

Key data managed and stored by the system:

* Student and staff information
* Card data and logs
* Room and building details
* Guest Reception (*future planning*)
* Service Inventory (*future planning*)

Entity-Relationship Diagram: