

Course Name: SOFTWARE REQUIREMENT SPECIFICATION(SRS)
Course Code: SE-406

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ER Diagram:

Data Object: User

Attributes:

- i) Name
- ii) Registration/Employee number
- iii) University name
- iv) Current position
- v) E-mail address
- vi) Mobile number
- vii) user name
- viii) password.

Data Object: University

Attributes:

- i) Name
- ii) Address
- iii) University_ID

Data Object: Administrator

Attributes:

- i) Name
- ii) Admin_ID

Data Object: Access Log

Attributes:

- i) Timestamp
- ii) IP_Address

Data Object: Research

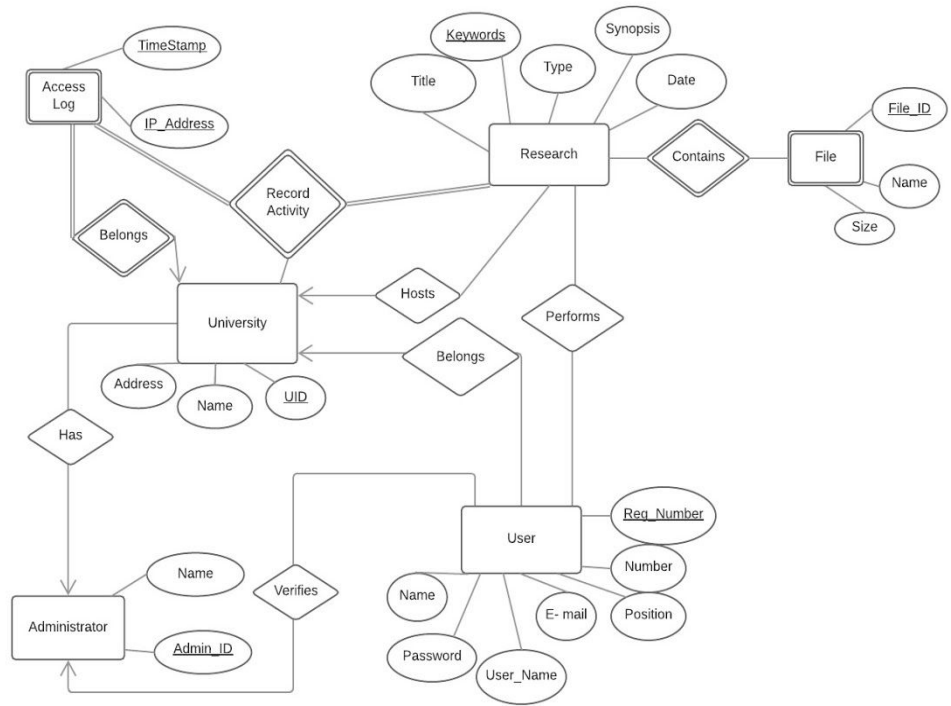
Attributes:

- i) Title
- ii) Type
- iii) Keywords
- iv) Synopsis
- v) Date.

Data Object: File

Attributes:

- i) Name
- ii) File_ID
- iii) Size



Case Based Modeling:

Identifying Analysis Classes:

Step 1: Identify and categorize all noun

- **External entities:** user, student, faculty, supervisor, guest
- **Things:** sms, email, phone-number, account, password, ip address, research
- **Occurrences or events:** verify, notify, upload, download, modify, view, change information, record
- **Roles:** administrator, supervisor
- **Organizational units:** user type, user position, research type
- **Places:** university
- **Structures:** system, file system

Step 2 : Selection of potential classes -

Selection Characteristics:

1. Retained information
2. Needed services
3. Multiple attributes
4. Common attributes
5. Common operations
6. Essential requirements

Essential Requirements -

All characteristics matched: user, student, teacher, university, file, administrator, research, system

