

Personal CRM

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CSE 111 Database Systems
Phase 1

Use Cases Overview

1. **Add Contact** - User should be able to add contacts to their contact list
2. **View/Edit Contact** - User can view their contacts in the contact list, and edit any attributes from the list.
3. **Delete Contact** - User can delete any of their contacts from the contact list.
4. **Search and Filter Contact List** - User can filter their contact list based on tags assigned to individual contacts.

Use Case #1 - Add Contact

Participating Actors: Owner of Personal CRM, person of interest

Event Flow:

1. Owner navigates to the personal CRM contacts page
2. Clicks the button for add new contact
3. Displays empty contact information text fields with address, name, birthday etc.
4. Owner enters the information for all of the fields
5. Owner saves the contact information
6. System adds stored information to the database

Entry Conditions: Owner of personal CRM is logged into their personal CRM

Exit Conditions: New contact has been added to the database

Use Case #2 - View/Edit Contact

Participating Actors: Owner of Personal CRM, person of interest

Event Flow:

1. Owner navigates to the personal CRM contacts page and views all of their contacts
2. Clicks the button for edit contact
3. Displays contact information text fields with address, name, birthday etc.
4. Owner can edit any of the information in the fields
5. Owner saves the contact information
6. System saves new information to the database

Entry Conditions: Owner of personal CRM is logged into their personal CRM

Exit Conditions: Contact has been edited/viewed and updated in the database

Use Case #3 - Delete Contact

Participating Actors: Owner of Personal CRM, person of interest

Event Flow:

1. Owner navigates to the personal CRM contacts page and views all of their contacts
2. Owner clicks the button for delete contact
3. Owner clicks yes, when database asks, "Are you sure"
4. System removes contact information from the database

Entry Conditions: Owner of personal CRM is logged into their personal CRM

Exit Conditions: Contact has been removed from the database

Use Case #4 - Search and Filter Contact List

Participating Actors: Owner of Personal CRM, person of interest

Event Flow:

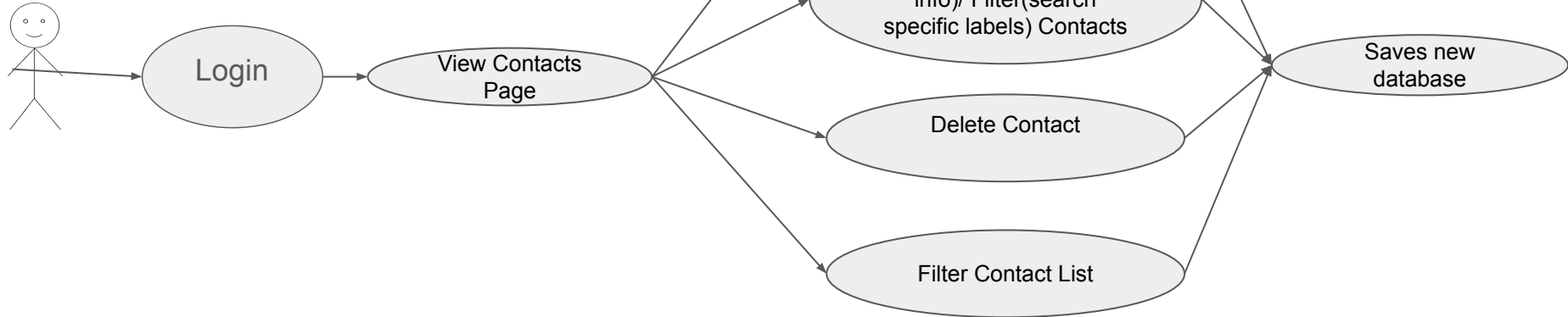
1. Owner navigates to the personal CRM contacts page and views all of their contacts
2. Owner can search using previously added labels or tags for their contacts to narrow down the list

Entry Conditions: Owner of personal CRM is logged into their personal CRM

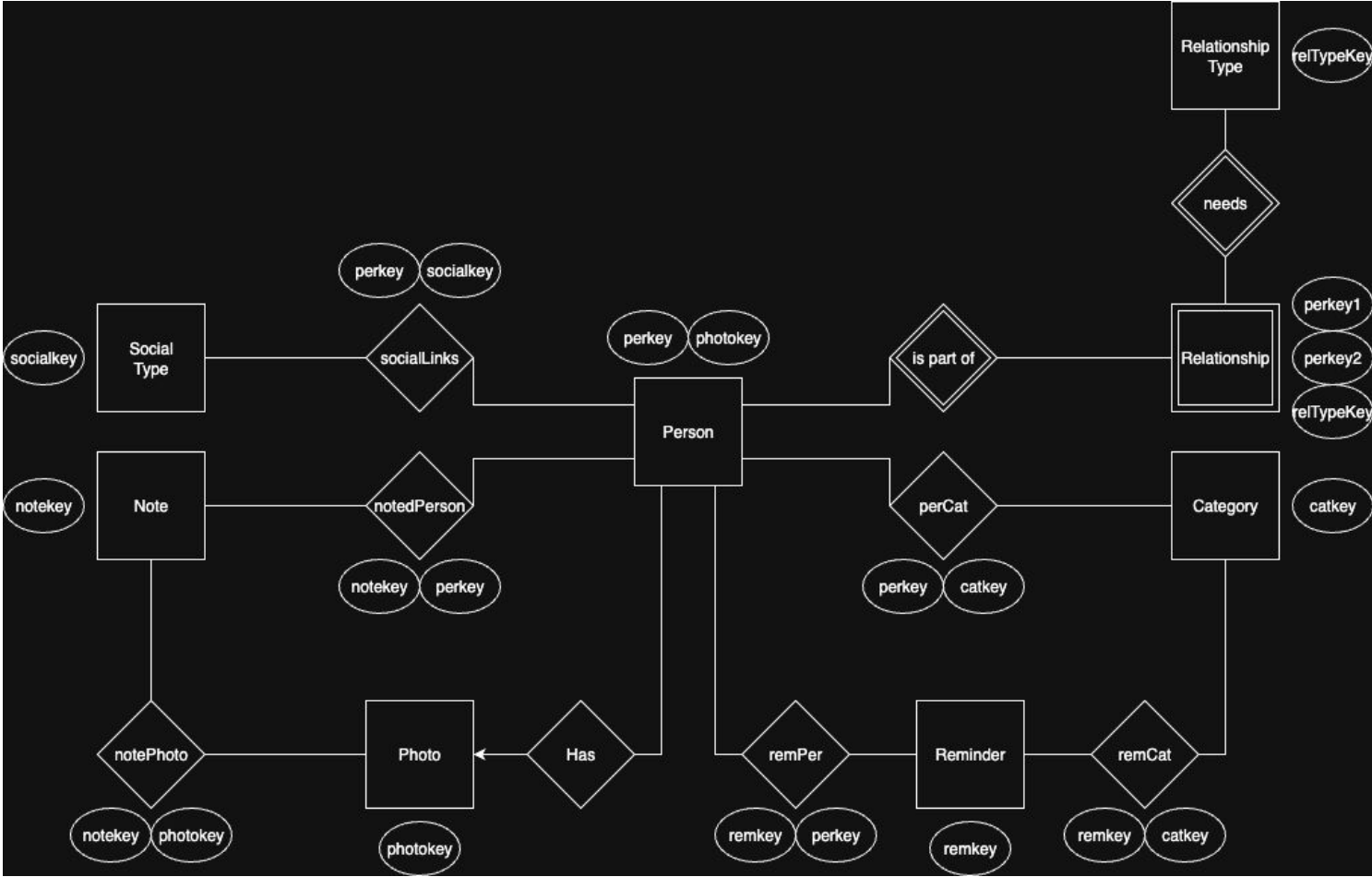
Exit Conditions: User filtered contact list by labels/tags

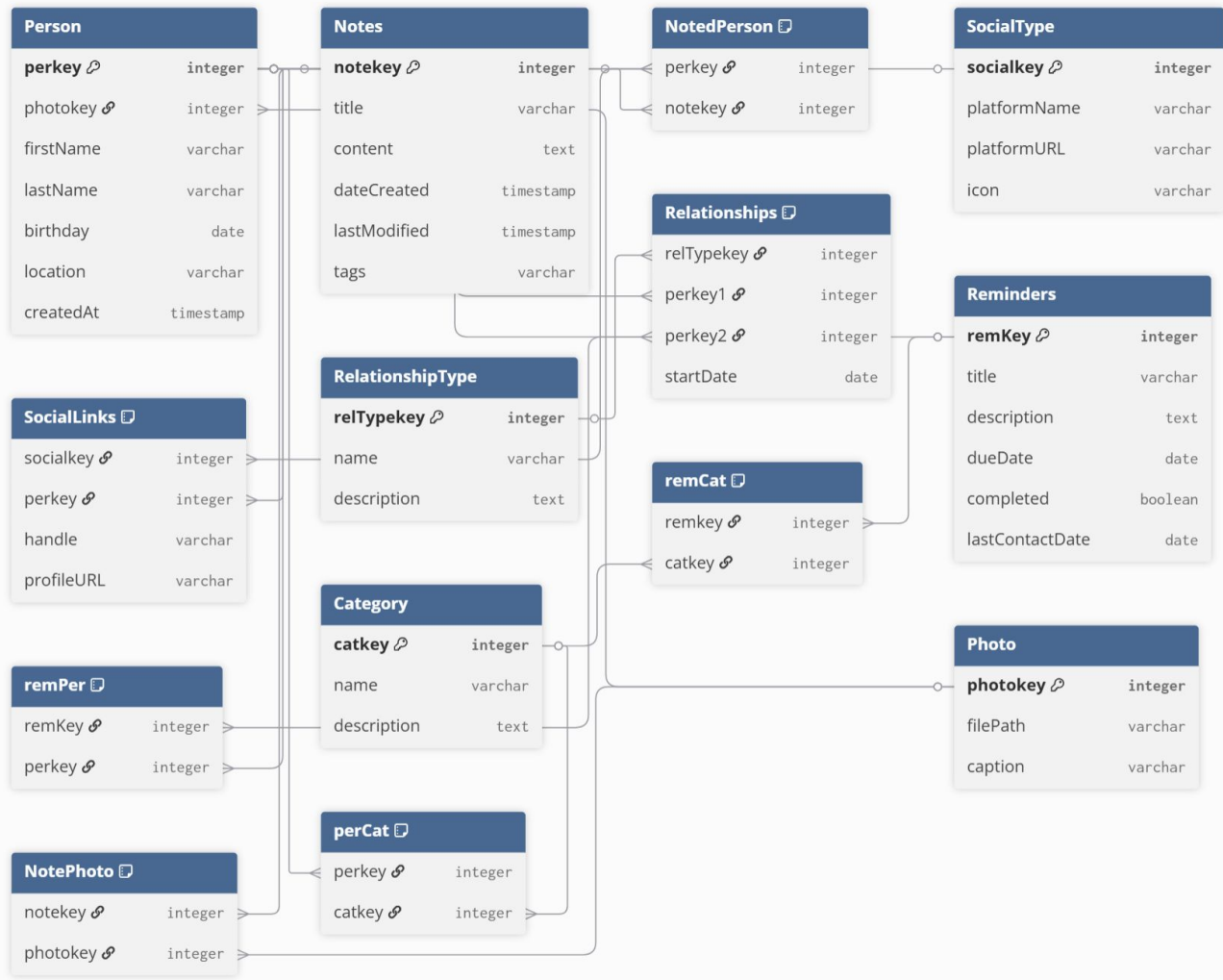
UML Use Case Diagram

Owner of
Personal CRM



E/R Diagram





E/R Diagram Converted to Relational Schema (Tables)

Tables

Person(**perkey**, **photokey**, firstName, lastName, birthday, location, createdAt)

Notes(**notekey**, title, content, dateCreated, lastModified, tags)

NotedPerson(**perkey**, **notekey**)

SocialType(**socialkey**, platformName, platformURL, icon)

SocialLinks(**socialkey**, **perkey**, handle, profileURL)

Relationships(**relTypekey**, **perkey1**, **perkey2**, startDate)

RelationshipType(**relTypekey**, name, description)

Reminders(**remKey**, title, description, dueDate, completed, lastContactDate)

remPer(**remKey**, **perkey**)

remCat(**remkey**, **catkey**)

Category(**catkey**, name, description)

Photo(**photokey**, filePath, caption)

NotePhoto(**notekey**, **photokey**)

perCat(**perkey**, **catkey**)