Group 7

Old ERD:

Users
PK	UserID
	Address
	Name
	Email
	Phone
	User_type
	Password
	Date_Created

Messages
PK	MessageID
	Message_Content
	Timestamp
	Sender_ID
	Receiver_ID

Skills
PK	SkillID
	Skill_Name
	Description

Help Requests
PK	RequestID
	Description
	Status
	Requested_At
	Location
	Urgency
	Resolved_At

User Skills
PK	UserSkillID
	SkillID
	Skill_Name
	Skill_Level
	Availability
	Certifications

Task Categories
PK	CategoryID
	Category_Name
	Category_Description
	Difficulty_Level

Notifications
PK	NotificationID
	Message
	Status
	Sent_At
	Read_At
	Type

Help Volunteers
PK	VolunteerID
	RequestID
	Task_ID
	Volunteered_Location
	Time_Spent
	Volunteered_Date
	Skill_Level

Tasks
PK	TaskID
	Title
	Description
	Created_At
	Due_Date
	Skills_Required
	Priority

Reviews
PK	ReviewID
	Rating
	Feedback
	Review_Date
	TaskID
	Review_Visibility

Handymen Availability
PK	AvailabilityID
	Available_Count
	Updated_Date
	Location
	Is_Active

Relationships: Send, Submit, Write, Receive, List, are detailed, Associated with, Register as, Generate, Specifies, Classify, Filtered By, Respond To, Received by, Are Rated
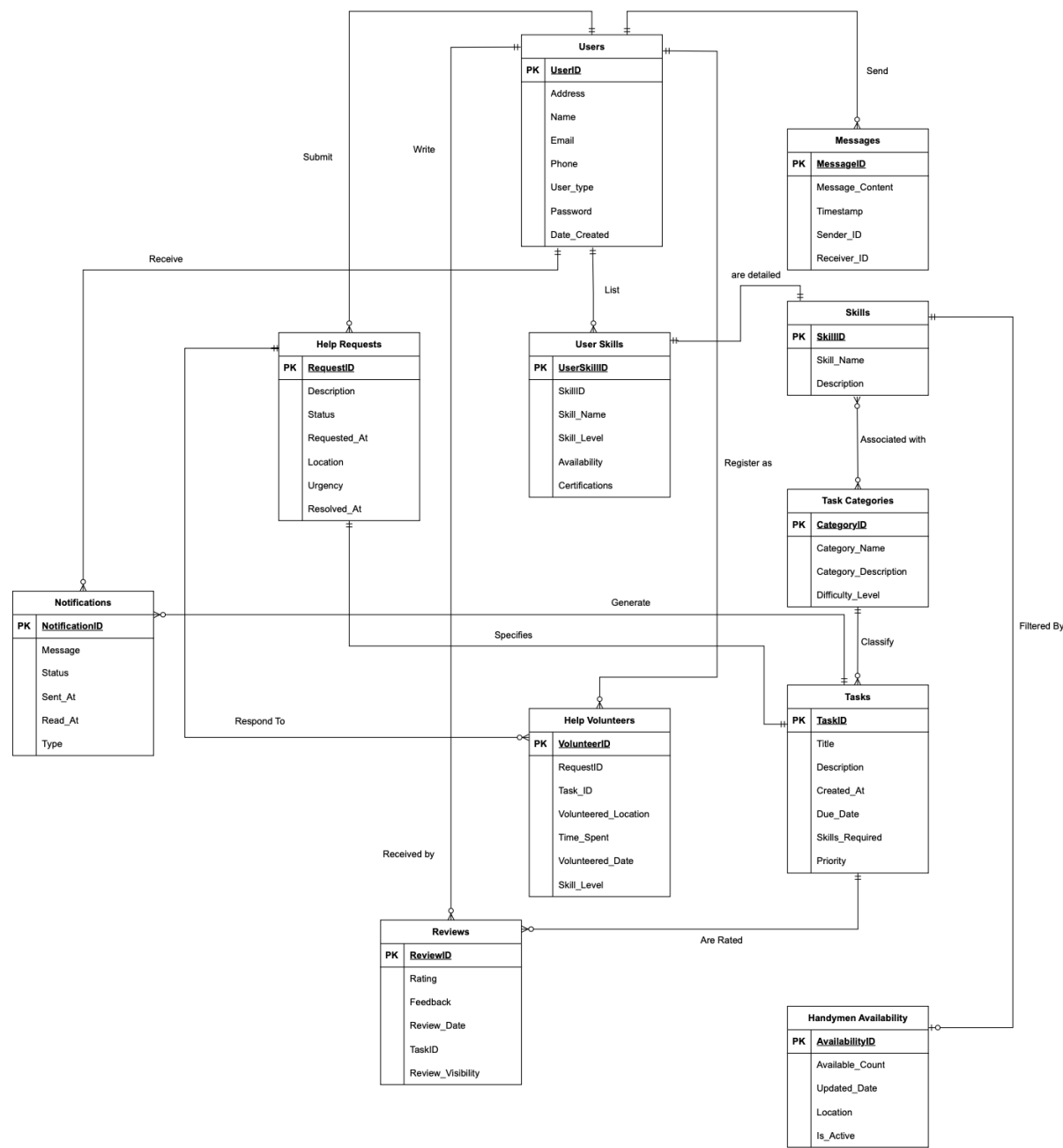
Changes from Old ERD to New ERD:

- **Normalization and Entity Decomposition:**

  - The "User" entity in the Old ERD, which contained various attributes like address, phone, and date of birth, has been separated into "User" and "Profile" entities in the New ERD. This allows for better organization and reduces potential redundancy if multiple users share the same address or phone number.

  - "Handyworker Availability" has been simplified into "Schedule" and "Location" entities, allowing for more specific tracking of when and where users are available.

  - "Skills" and "Task Categories" have been consolidated into "Skill" and the relationship to task has been simplified.

- **Relationship Refinement:**

  - The relationships between entities have been clarified and made more specific (e.g., "Follows," "Planned at," "Has").

  - The message system has been simplified.

- **New Entities:**

  - "Profile" has been introduced to hold personal user information.

  - "Schedule" has been introduced to track task scheduling.

  - "Location" has been introduced to track locations related to the tasks.

  - "Community" has been introduced.

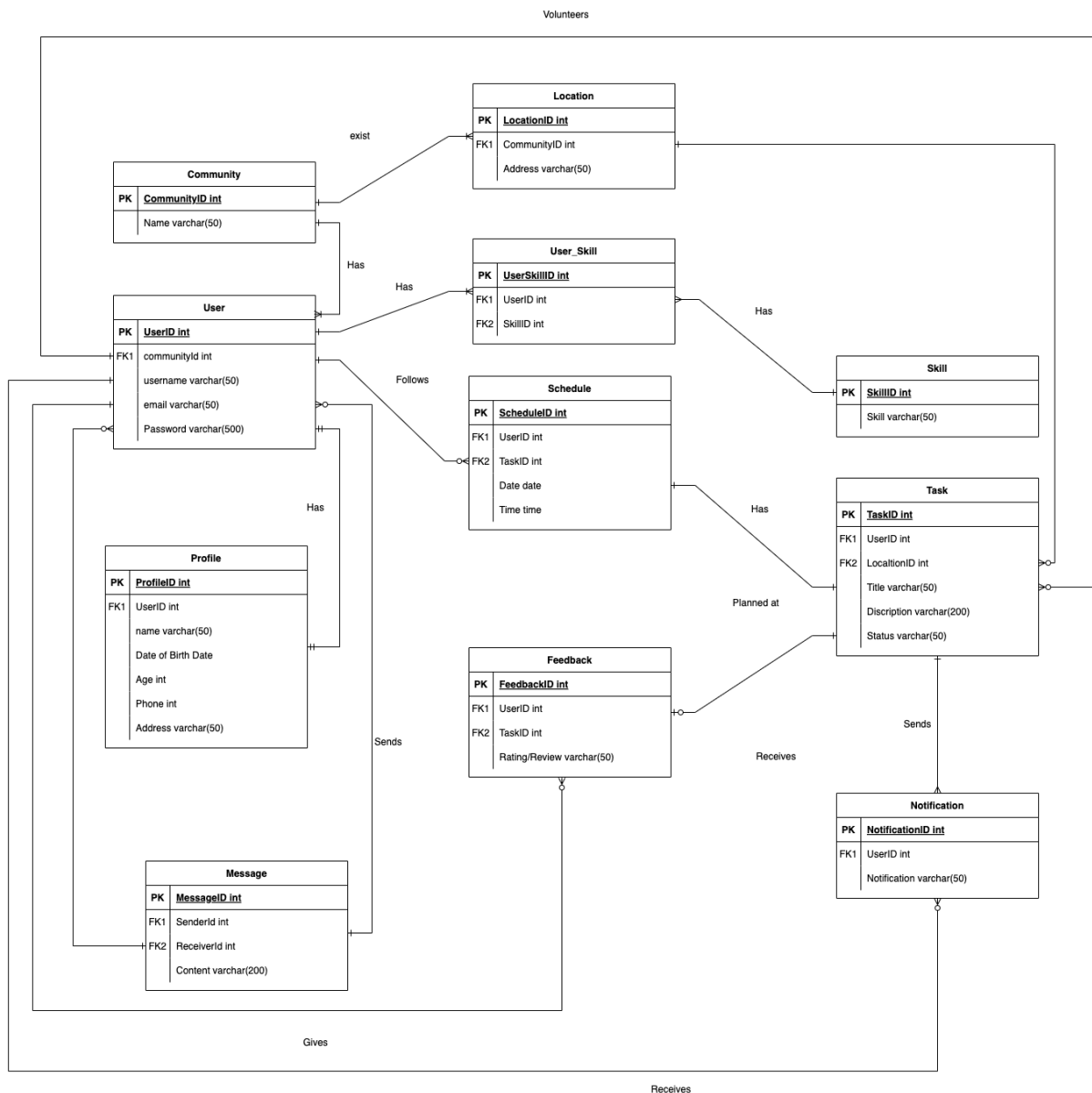- **Attribute Simplification:**

  - Some attributes have been simplified or renamed for clarity.

  - The new ERD has a more simplified view of the data.

- **Removal of some entities:**

  - "Help Requests" and "Help Functions" have been removed.

  - "Notifications" has been simplified.

  - "Reviews" has been changed to "Feedback".

These changes suggest a move towards a more normalized and logically organized database structure, addressing redundancy and providing a clearer representation of the data relationships.

New Logical ERD:

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GitHub Link: https://github.com/HandyHood/HandyHood