Team Members

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Github Repository

https://github.com/rmit-s3647369-He-Yidian/MiniNet.git

Class Diagram
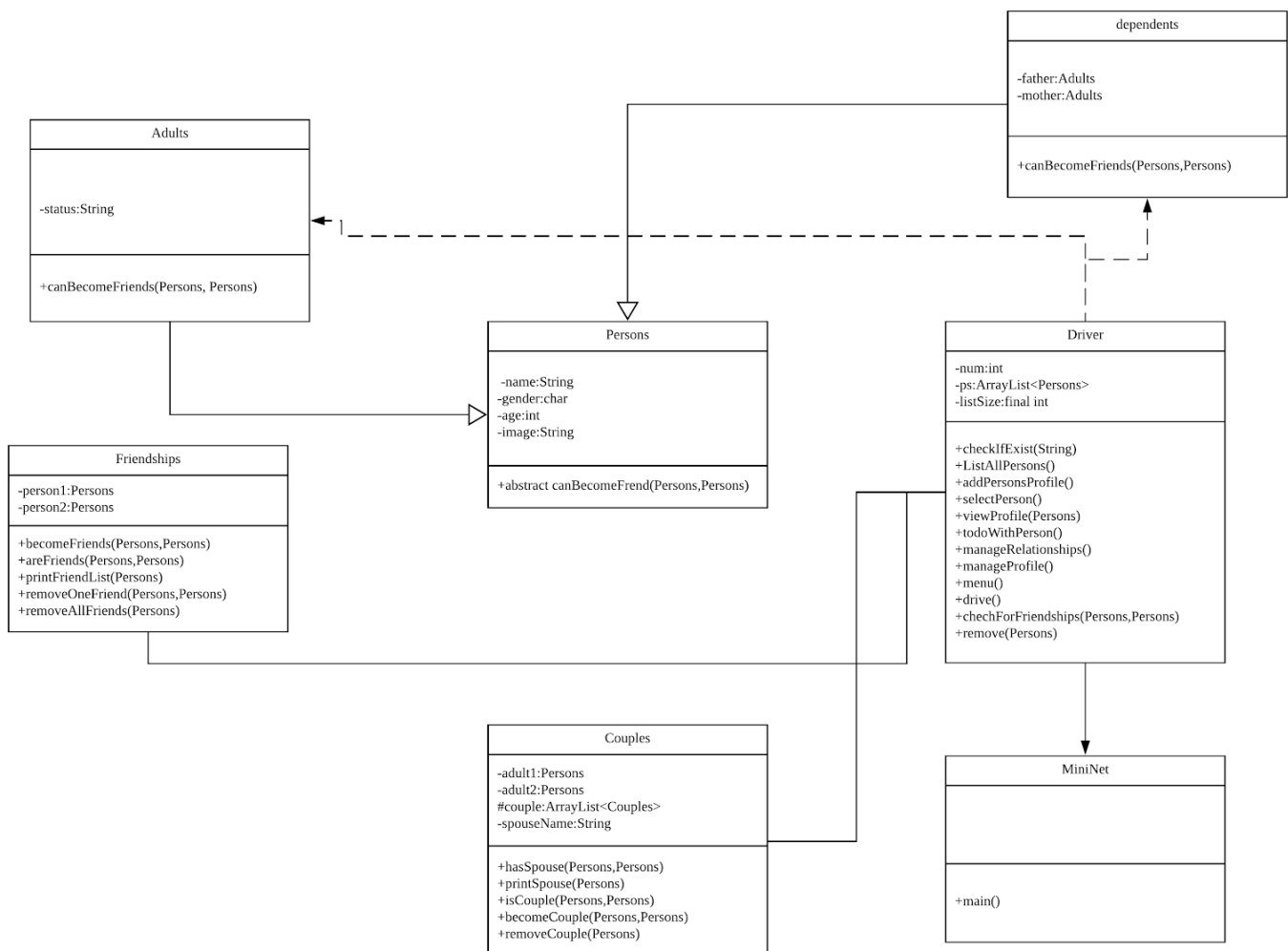
Scenario

The program MiniNet is designed to manage the social network of people and store the people's information. In this program, people aged above 16 years old are adults, while people aged no more than 16 years old are dependents. The program can only store the profile of 500 people. The relationships between two people can be connected are friends and couples. The functions of the program are mainly divided into the following parts:
- List all persons that stored in the net
- Add a new person's profile
- Manage the profile information with the selected person
- Manage the relationships with the selected person
- Check two persons if they are friends
- Exit the system

Function description

- List all person's name
- Add a new person
  - The users have to input name gender and age in the format of "name M/F age" (i.e "jack M 32") to finish the task.
  - The names have to be unique.
- Select a person by name
  - View the selected person's profile
    - Including image, name, gender, age, friend list
    - If the selected person is an adult, it will also display status, spouse's name and his/her children's name if the person has.
    - If the selected person is a dependent, it will also display the dependent's parents' names.
  - Update the person's name
  - Update the person's age
  - Update the adult's status
  - Upload an image into the person's profile
  - Make a person become friends with the selected person
    - Adults can only make friends with adults, and they are not couples as well.
    - Dependents can only make friends with dependents with different parents.
    - A dependent can only make friends with dependents who is older or younger than the dependent no more than 3 years old.
    - A dependent who is 2 years old or younger cannot have any friends.
  - Remove one of the selected person's friends

- o Make an adult become couple
    - ▪ Only the adult has no spouse can make couple with another adults with no spouse.
- o Remove from the MiniNet
    - ▪ If the selected person is an adult and the person have children, it cannot be removed.
- Check for friendships
    - o The users have to input two person's name in format of "name name" (i.e. "jack alex") to complete the task.

**All input names have to already be in the MiniNet, otherwise, the program will notificate to add the person first.

Progress

- In MiniNet Menu, the user can select:
    - o List all person
    - o Add a new person
    - o Select a person by name
    - o Check for friendships
    - o Exit the system
- If the users select a valid person's name, it will go to todoWithPerson Menu, so that the user can do below tasks with the selected person:
    - o View profile
    - o Manage profile
    - o Manage relationship
    - o Remove from the MiniNet
    - o Go back to MiniNet Menu
- If the users select to Manage profile, it will go to Manage profile Menu, so that the user can do below tasks with the selected person:
    - o Update name, age and status
    - o Upload images
    - o Go back to todoWithPerson Menu
- If the users select to Manage relationship, it will go to Manage relationship Menu, so that the user can do below tasks with the selected person:
    - o Add new friends
    - o Remove one of the friends
    - o Become couple
    - o Go back to todoWithPerson Menu
- If the users select to Remove from the MiniNet and the task succeed, it will go back to MiniNet Menu.

Things to improve

- The program does not take into account the change of the age, so that a dependent cannot become an adult if the age changes.
- The program restricts that the dependents have to have two parents, so that if an adult have children, his/her profile cannot be removed from the MiniNet. If the users want to remove the adult, the user should remove the adult's children's profile first.