Role:

Developer 1

Developer 2

QA

Project manager

Product owner

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Use Case Diagram

- **User** (actor)
- **Database** (actor)
- **Matching Algorithm** (actor)

Use Cases:
- Registration
- Create Profile
- Search Programmer
- View Programmer Details
- Add to Favorites
- View Favorites List
- Matching

Relationships:
- Create Profile «include» Registration
- View Programmer Details «include» Search Programmer
- Add to Favorites «include» View Programmer Details

```mermaid
stateDiagram
    [*] --> Start Search
    Start Search --> Enter Criteria
    Enter Criteria --> Perform Search
    Perform Search --> Display Results
    Display Results --> choice
    choice --> End Search
    choice --> Select Programmer
    Select Programmer --> View Programmer Details
    End Search --> [*]
    View Programmer Details --> [*]
```

Database

+StoreUserData()

User

-userId: String
-username: String
-email: String
-password: String
-favorites: List<User>

+SearchProgrammer()
+ViewProfile()

MatchingAlgorithm

-matchId
-userId

+MatchUser(User1: User, User2: User): List<User>

Project

-projectId: String
-projectName: String
-projectMembers: List<User>
-projectSkills: List<String>

+addMember(user: User): void
+removeMember(user: User): void
+updateSkills(skills: List<String>): void