act [Search and Join Match]

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  ●  ──→  ┌─────────────┐    ┌─────────────┐    ┌─────────────┐
          │ Navigate to │──→ │Display search│──→│Enter search │
          │ find matches│    │    form      │    │  criteria   │
          └─────────────┘    └─────────────┘    └─────────────┘
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| Navigate to find matches | Display search form | Enter search criteria |

| View match details | Select match | Search for matches |

Request to join match

Join as individual or team?

Verify team eligibility

individual

team

Check match availability

Get team members

Match available?

Display match not available error

No

Yes

Approval required?

Create join request

Yes

No

Display join confirmation

Approval required?

Notify match organizer

Notify participant

Notify match organizer

Display request sent confirmation

act [Register]

- Navigate to registration page
- Display registration form
- Enter user details (email, username, password)
- Submit registration form
- Validate input data

Input valid?

- Check existing user — Yes
- validation errors — No

User already exists?

- Display user exists error — Yes
- Create user account — No
- Hash Password
- Store user data in database
- Generate auth token
- Send verification email
- Display success message

act [Real-time Messaging Process]

Open conversation → Load message history → Establish socket connection

Connection Successful

Yes → Display messages → Type message → Send message

No → Display connection error

Send message → Store message in database → Broadcast message to participants → Receive new messages → Display new messages → Mark messages as read → Update read status

act [CreateMatch]

Navigate to create match section → Display match creation form → Enter match details

Enter match details → Validate input data

Validate input data → Input Valid?

Input Valid? — No → Display validation errors → Enter match details

Input Valid? — Yes → Check facility availability

Check facility availability → Facility available?

Facility available? — No → Display facility not available error → (end)

Facility available? — Yes → Payment required?

Payment required? — Yes → Process payment

Payment required? — No → Store match data

Store match data → Send notifications → Display match creation confirmation → (end)