

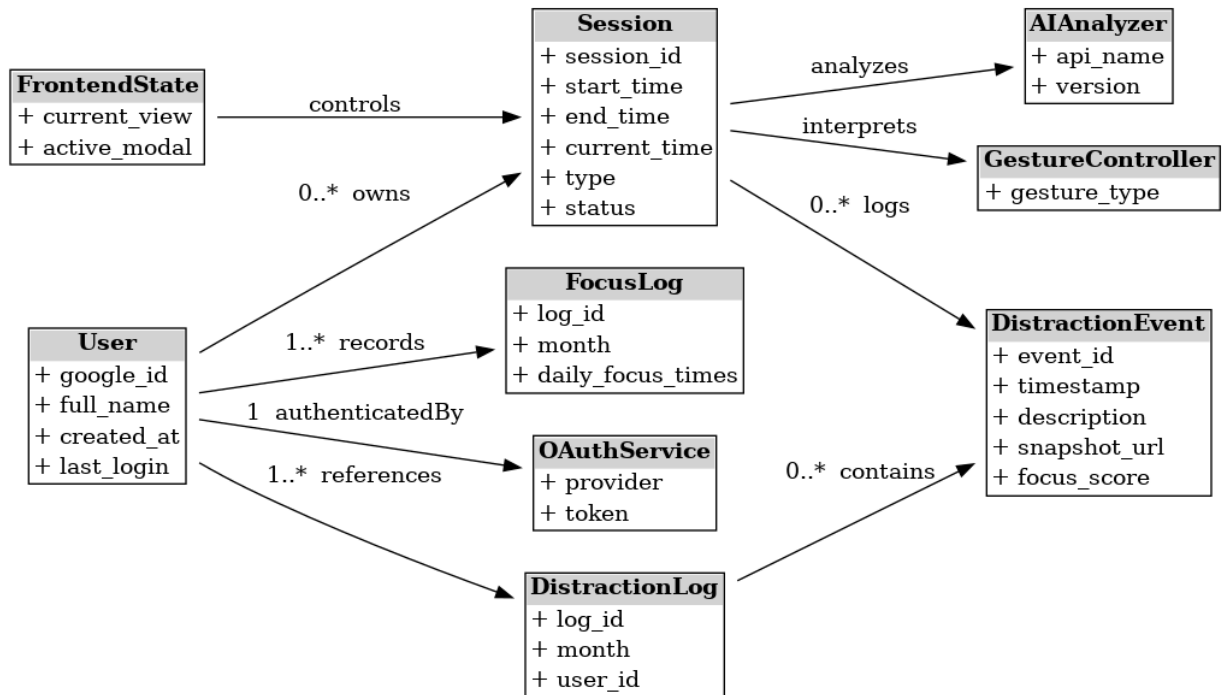
## nagAI: Data Design

CSE 416, Spring 2025

Group members:

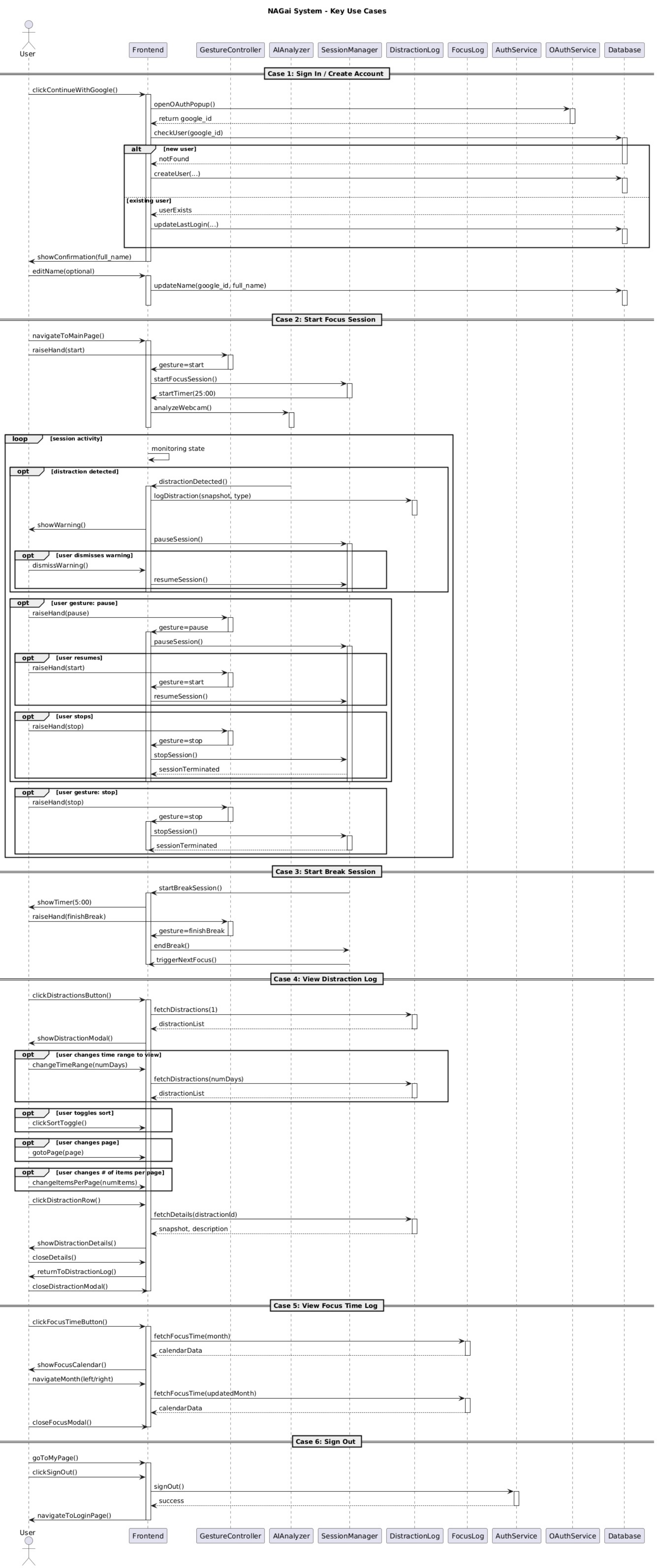
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Class Diagram:



Sequence Diagram:

NAGai System - Key Use Cases



## SQL Schema Draft:

### \* users

```
CREATE TABLE users (  
  google_id VARCHAR(64) PRIMARY KEY,  
  full_name VARCHAR(100) NOT NULL,  
  created_at DATETIME NOT NULL,  
  last_login DATETIME NOT NULL  
);
```

### \* sessions

```
CREATE TABLE sessions (  
  session_id INT AUTO_INCREMENT PRIMARY KEY,  
  google_id VARCHAR(64),  
  start_time DATETIME NOT NULL,  
  end_time DATETIME,  
  type ENUM('focus', 'break') NOT NULL,  
  status ENUM('active', 'paused', 'stopped', 'completed') NOT NULL,  
  FOREIGN KEY (google_id) REFERENCES users(google_id)  
);
```

### \* distraction\_events

```
CREATE TABLE distraction_events (  
  event_id INT AUTO_INCREMENT PRIMARY KEY,  
  session_id INT,  
  timestamp DATETIME NOT NULL,  
  description TEXT NOT NULL,  
  snapshot_url TEXT,  
  focus_score INT,  
  FOREIGN KEY (session_id) REFERENCES sessions(session_id)  
);
```

### \* focus\_logs

```
CREATE TABLE focus_logs (  
  log_id INT AUTO_INCREMENT PRIMARY KEY,  
  google_id VARCHAR(64),  
  focus_date DATE NOT NULL,  
  total_focus_time INT NOT NULL, -- in seconds  
  FOREIGN KEY (google_id) REFERENCES users(google_id)  
);
```

### \* terms\_agreements

```
CREATE TABLE terms_agreements (  
  google_id VARCHAR(64) PRIMARY KEY,  
  agreed_terms BOOLEAN NOT NULL,  
  agreed_privacy BOOLEAN NOT NULL,  
  agreed_at DATETIME NOT NULL,  
  FOREIGN KEY (google_id) REFERENCES users(google_id)  
);
```

Contributions:

- Jiwoo:
  - Implemented frontend page for main pages
  - Revised the class diagram about multiplicity, Distraction Log, and Session
  - Revised sequence diagram for usecase 1 and 2.
  - Implemented SQL schema draft for 'sessions' and 'distraction\_events'
- Joohyoung:
  - Implemented frontend Create / Login page.
  - Implemented frontend Terms & conditions page.
  - Implemented frontend Account Creation - Edit Name page.
  - Implemented SQL schema draft, 'users'
- Wooyoung:
  - Created class diagram
  - Created sequence diagram
  - Implemented SQL schema draft for 'users' and 'focus\_logs'
  - Implemented frontend pages for Distraction Log, Focus Log, and Edit Information