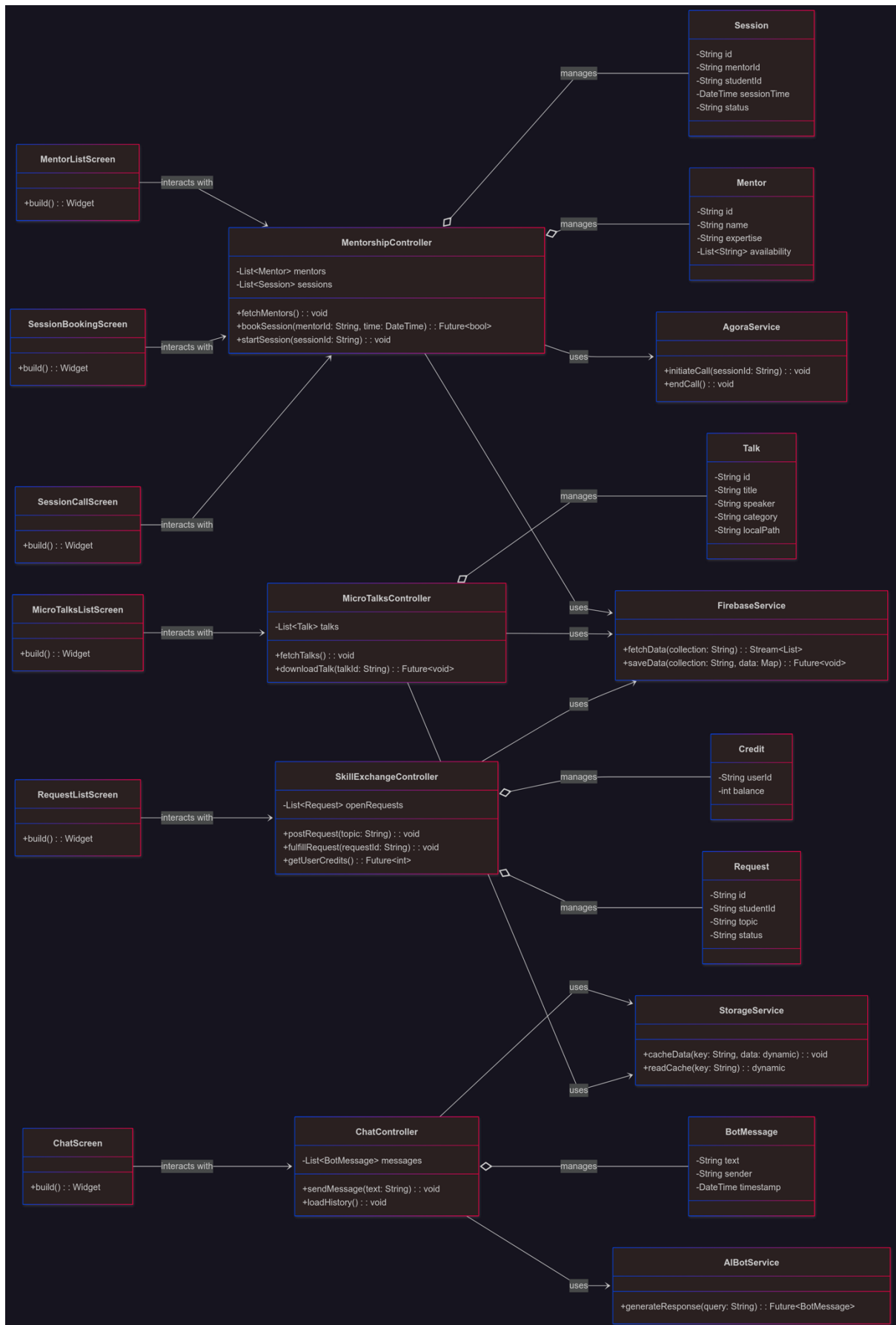


Class Diagram:



Project Folder Structure (Flutter)

```
lib/
├── main.dart                # Entry point
├── config/                  # App-wide configuration
│   ├── app_theme.dart      # Colors, typography
│   ├── app_routes.dart     # Route management
│   └── constants.dart      # String keys, tokens
├── core/                    # Reusable core logic
│   ├── services/           # External services integrations
│   │   ├── firebase_service.dart
│   │   ├── agora_service.dart
│   │   ├── ai_bot_service.dart
│   │   └── storage_service.dart
│   ├── utils/              # Helpers, formatters
│   │   ├── validators.dart
│   │   └── date_utils.dart
│   └── widgets/            # Shared UI components
│       ├── app_button.dart
│       ├── app_textfield.dart
│       └── loading_spinner.dart
├── features/                # Each feature = self-contained module
│   ├── mentorship/         # 1:1 mentorship
│   │   ├── models/
│   │   │   ├── mentor.dart
│   │   │   └── session.dart
│   │   ├── screens/
│   │   │   ├── mentor_list_screen.dart
│   │   │   ├── mentor_detail_screen.dart
│   │   │   ├── session_booking_screen.dart
│   │   │   └── session_call_screen.dart
│   │   ├── controllers/
│   │   │   └── mentorship_controller.dart
│   │   └── widgets/
│   │       ├── mentor_card.dart
│   │       └── booking_form.dart
│   ├── microtalks/         # Micro-talks storage
│   │   ├── models/
│   │   │   └── talk.dart
│   │   ├── screens/
│   │   │   ├── microtalks_list_screen.dart
│   │   │   └── talk_detail_screen.dart
│   │   ├── controllers/
│   │   │   └── microtalks_controller.dart
│   │   └── widgets/
│   │       ├── talk_card.dart
│   │       └── download_button.dart
│   └── skill_exchange/     # Peer-to-peer skill sharing
│       ├── models/
│       │   ├── request.dart
│       │   └── credit.dart
│       ├── screens/
│       │   ├── request_list_screen.dart
│       │   └── offer_help_screen.dart
│       ├── controllers/
│       │   └── skill_exchange_controller.dart
│       └── widgets/
```

```
|
|      └─ request_card.dart
└─ knowledgebot/          # AI-powered chatbot
    └─ models/
        └─ bot_message.dart
    └─ screens/
        └─ chat_screen.dart
    └─ controllers/
        └─ chat_controller.dart
    └─ widgets/
        └─ chat_bubble.dart
        └─ input_field.dart
└─ shared/                # Cross-feature reusable code
    └─ network/            # API / HTTP logic
        └─ api_client.dart
    └─ storage/            # Local storage helpers
        └─ hive_helper.dart
        └─ sqlite_helper.dart
```

GitHub Link: <https://github.com/AbdullahRFA/CampusGuardian-JU-Wisdom-Mentorship-Knowledge-Hub/tree/main/juwisw>