

# Girl Talk – Service Layer Design Document

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## RESTful API Endpoint

Endpoint	Method	Description	User Role
/api/users/register	POST	Register a new user	Student, Counselor
/api/users/login	POST	Log in and return auth token	All
/api/users/profile/:id	GET	Get user profile	All
/api/messages	POST	Send a message	Student
/api/messages/:userId	GET	Get message history with a user	Student, Counselor
/api/appointments	POST	Create an appointment request	Student
/api/appointments/:counselorId	GET	Counselor views appointment requests	Counselor
/api/appointments/:appointmentId	PUT	Update appointment status	Counselor
/api/resources	POST	Counselor creates a resource	Counselor
/api/resources	GET	Student views shared resources	Student
/api/reports/engagement	GET	Admin views anonymized trends	Admin

## Requests and Responses Examples

### POST /api/messages (Success)

Request:

```
{  
  "sender_id": 12,  
  "receiver_id": 23,
```

```
"content": "Hi, can we talk?",  
"is_anonymous": false  
}
```

Response:

```
{  
  "message_id": 101,  
  "status": "Message sent successfully"  
}
```

### **POST /api/messages (Missing content)**

Request:

```
{  
  "sender_id": 12,  
  "receiver_id": 23,  
  "is_anonymous": false  
}
```

Response:

```
{  
  "error": "Message content is required"  
}
```

### **POST /api/appointments (Success)**

Request:

```
{  
  "student_id": 45,  
  "counselor_id": 18,  
  "date": "2025-03-25T14:30:00Z"  
}
```

Response:

```
{  
  "appointment_id": 77,  
  "status": "pending"  
}
```

### **POST /api/users/register (Missing email)**

Request:

```
{
  "name": "Samantha",
  "role": "student"
}
```

Response:

```
{
  "error": "Email is required"
}
```

### UI-to-Service Endpoint Map

UI Page	Trigger/Event	Endpoint Called
Login Page	On login form submit	POST /api/users/login
Register Page	On form submit	POST /api/users/register
Profile Page	On load	GET /api/users/profile/:id
Chat Page	On send message	POST /api/messages
Chat Page	On open chat	GET /api/messages/:userId
Appointment Booking	On form submit	POST /api/appointments
Counselor Dashboard	On load	GET /api/appointments/:counselorId
Appointment Detail	On approve/decline	PUT /api/appointments/:appointmentId
Resource Library	On load	GET /api/resources
Admin Reports	On load	GET /api/reports/engagement