# **Know Error Database — Project Tracker**

Project Name: Project Tracker

#### **Team Roles**

- Project Creator: Initiates and manages the project
- Task Completor: Executes assigned tasks
- Admin: Takes control if the Project Creator leaves

# **General Errors and Solutions**

### 1. Database Connection Error (PostgreSQL on Railway)

- Error:
  - o password authentication failed for user "postgres"
  - o could not connect to server: Connection refused
- Cause:
  - Incorrect credentials (username/password/host/port)
  - Wrong or missing .env configuration
  - Railway database instance is inactive or expired
  - SSL not properly handled
- Solution:

Double-check .env variables from Railway dashboard:

```
PGUSER=your_user
PGPASSWORD=your_password
PGHOST=your_host
PGPORT=your_port
PGDATABASE=your_database
DATABASE_URL=postgresql://your_user:your_password@your_host:your_port/
your_database
```

### 2. CORS Policy Error (Frontend ↔ Backend)

• Error:

```
Access to fetch at 'http://localhost:5173' from origin 'http://localhost:5000 has been blocked by CORS policy
```

Cause:

Missing CORS headers in Express

#### Solution:

```
const cors = require('cors');
app.use(cors({ origin: 'http://localhost:5000', credentials: true }));
```

#### 3. Firebase Admin SDK Initialization Error

• Error:

Error: Failed to parse Firebase service account JSON

- Cause:
  - Invalid path to the JSON file
  - Malformed or incomplete service account file

#### Solution:

- Verify the path to firebase-adminsdk.json
- Ensure the JSON is valid and includes all required keys

# **Project Feature-Specific Errors**

# 4. Project Creation Not Saving

Error:

Project does not appear after form submission

- Cause:
  - Missing required fields
  - PostgreSQL query error
- Solution:
  - Validate all fields before sending request

Use error logging:

```
pool.query(sql, values, (err, result) => {
  if (err) console.error(err.message);
});
```

# 5. Task Assignment Email Not Sent

• Error:

No email received by task completor

#### Cause:

- Email service misconfigured
- Backend not hitting email API
- Email blocked as spam

#### Solution:

- o Use nodemailer with proper SMTP settings (e.g., Gmail)
- Check firewall/port access
- o Log success or failure of email sending

# 6. Milestone/Task Edit Not Reflecting

#### • Error:

Edits not visible after update

#### Cause:

- Incorrect or failed API request
- o PostgreSQL update query failed silently

#### Solution:

- Check browser network tab
- Validate backend route and SQL UPDATE query
- Re-fetch data on success or update state in frontend

# **Authentication Errors**

# 7. Sign In with Google Not Working

#### • Error:

```
auth/invalid-credential, popup_closed_by_user
```

- Cause:
  - Google OAuth not enabled in Firebase
  - Invalid redirect URI

#### Solution:

- o Enable Google Sign-In in Firebase Console
- Register authorized redirect URIs

Use Firebase SDK:

```
const provider = new GoogleAuthProvider();
signInWithPopup(auth, provider);
```

# **Notification Feature Issues**

# 8. Notification Not Triggering

#### What Happened?

No one gets notified when a task is added or updated.

#### Why It Happened?

- There is no logic in your backend or database to send notifications.
- You forgot to add code to trigger emails or alerts.

#### How to Fix It?

```
In PostgreSQL, you can create a trigger to run when data changes:
CREATE OR REPLACE FUNCTION notify_task_update()
RETURNS trigger AS $$
BEGIN
    -- Add logic to insert into notifications table or send message
    RETURN NEW;
END;
$$ LANGUAGE plpgsql;
Or handle it in your Node.js code:
// After task is updated
sendNotification(userId, "Your task was updated");
```