

User Manual EDU-PREDICT

EPROJECT

Sir Aseef Ahmed

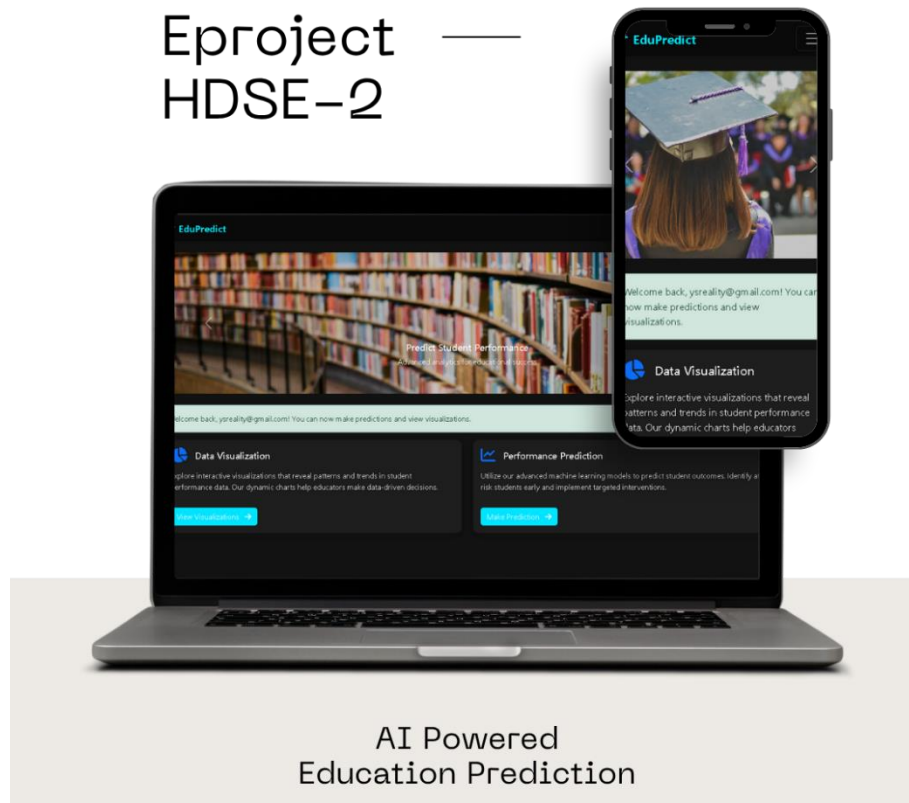
Coordination: Miss Iqra Khan

Problem Statement

Background

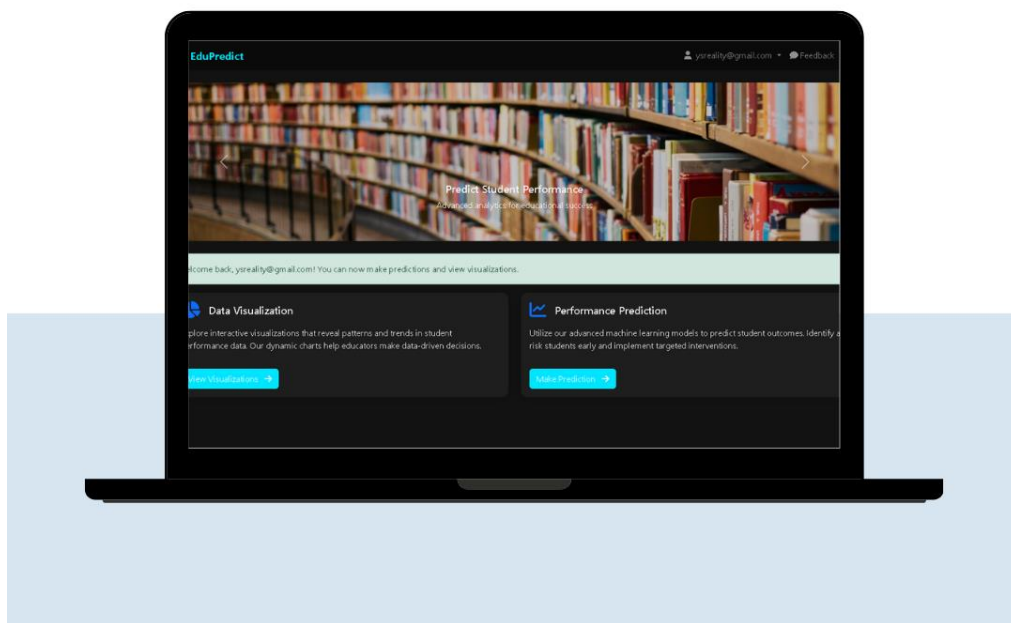
Education institutions worldwide face numerous challenges, such as declining student retention rates, inefficient resource allocation, and the need to personalize learning experiences. At the same time, advancements in technology and data availability present significant opportunities to address these challenges through data-driven approaches.

By leveraging the capabilities of Hadoop and predictive analytics, EduPredict aims to overcome these challenges, capitalize on data-driven opportunities, and ultimately enhance the educational experience for the students.



Accessing the Application

- Open your browser and go to the EduPredict website (localhost or deployment URL).
- You'll land on the Home Page with an overview and navigation menu.



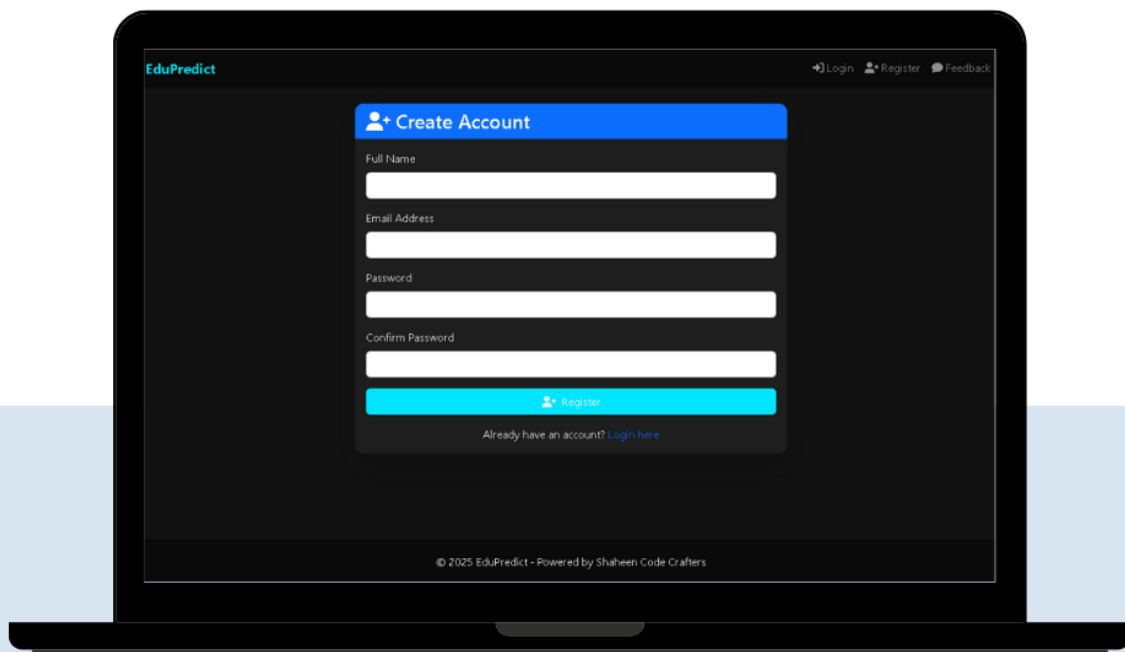
User Registration & Login

2.1. Register

- Click Register from the navbar.
- Fill in:
 - Name
 - Email
 - Password
 - Confirm Password

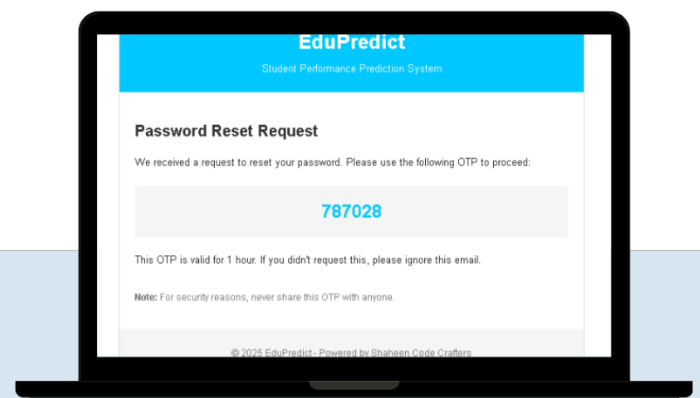
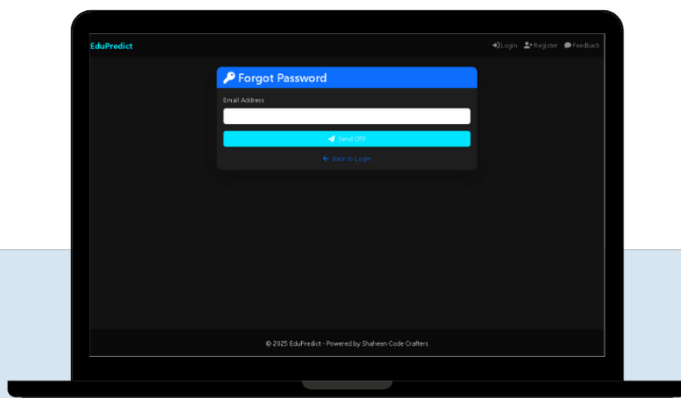
2.2. Login

- Click Login from the navbar.
- Enter your email and password.
- If correct, you will be redirected to the homepage.



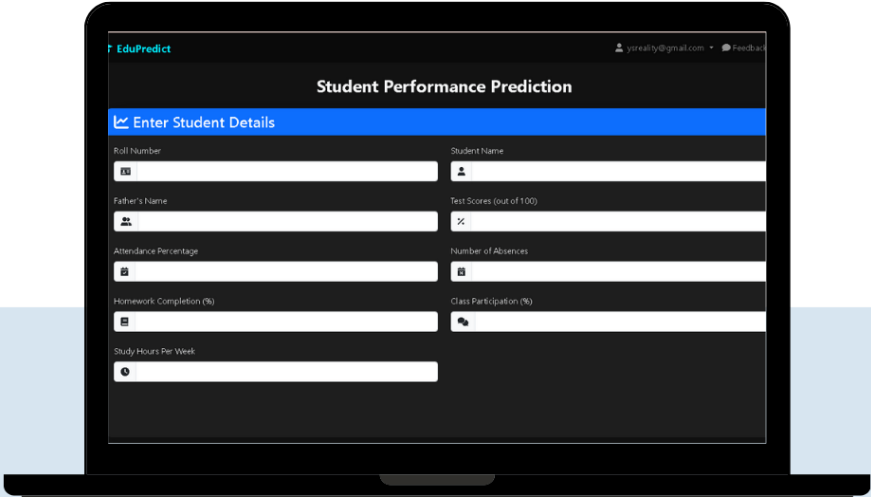
Forgot Password

- On the Login page, click Forgot Password.
- Enter your email address.
- You'll receive an OTP in your email.
- Use that OTP to set a new password via the Reset Password page.



1. Predict Student Performance

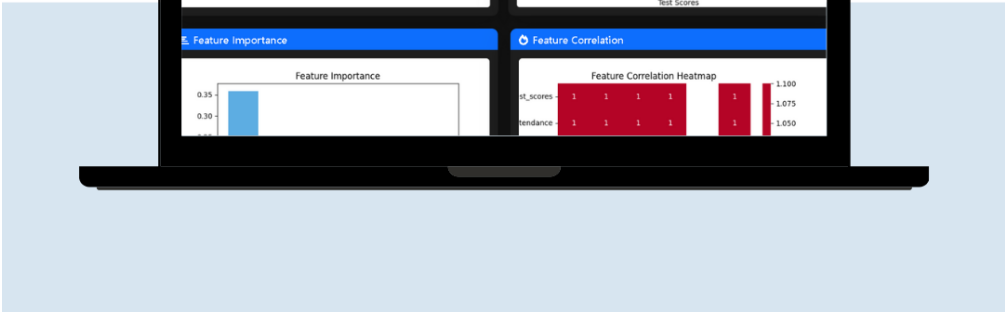
- Go to the Predict page.
- Fill in the following student data:
 - Roll Number
 - Name
 - Father's Name
 - Test Scores
 - Attendance
 - Number of Absences
 - Homework Completion (%)
 - Participation (%)
 - Study Hours Per Week
- Click Predict.
- You will see a result: “Continue Studies” or “Likely to Dropout”.
- This prediction is saved under your account.



The screenshot shows a laptop displaying the 'EduPredict' web application. The page title is 'Student Performance Prediction'. Below the title is a blue button labeled 'Enter Student Details'. The form contains several input fields arranged in two columns:

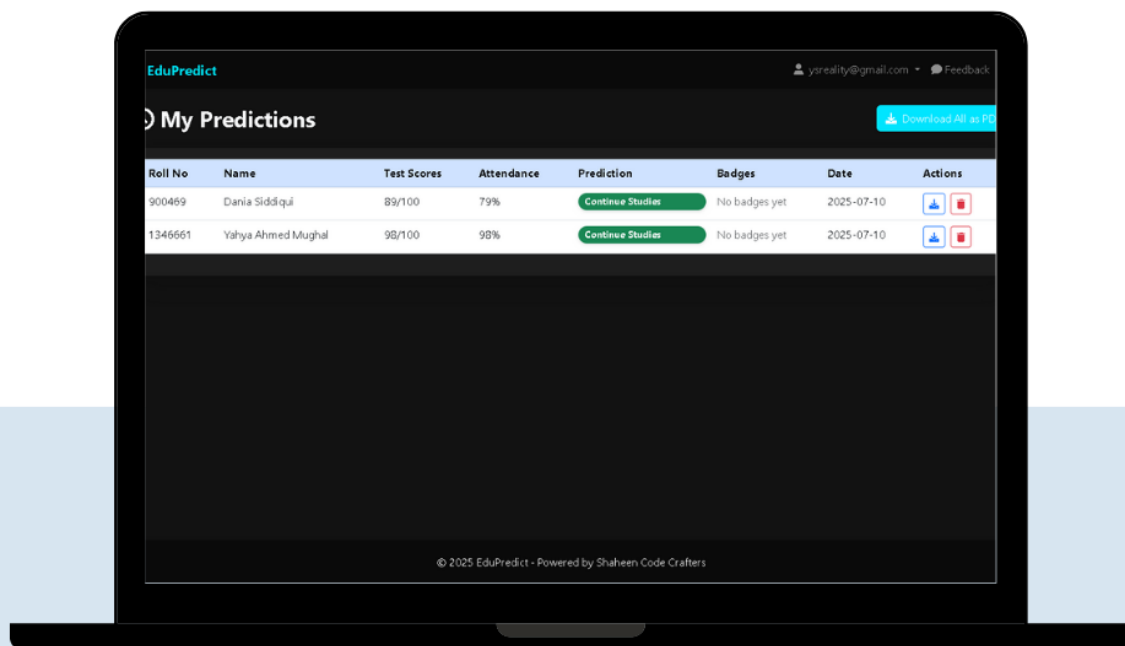
Field Name	Field Type
Roll Number	Text input
Student Name	Text input
Father's Name	Text input
Test Scores (out of 100)	Text input
Attendance Percentage	Text input
Number of Absences	Text input
Homework Completion (%)	Text input
Class Participation (%)	Text input
Study Hours Per Week	Text input

- Navigate to Visualization in the menu.
- You'll see:
 - Prediction Distribution (Pie Chart)
 - Test Scores vs Attendance (Scatter Plot)
 - Feature Importance (Bar Chart)
 - Correlation Matrix (Heatmap)
 - Study Hours (Histogram)
 - Monthly Trends (Line Chart)
 - Box, Bar, and Violin plots for deeper insights



View & Manage Predictions

- Click My Predictions.
- You'll see a list of all your predictions sorted by latest.
- For each entry, you can:
 - Download Report (PDF)
 - Delete Prediction



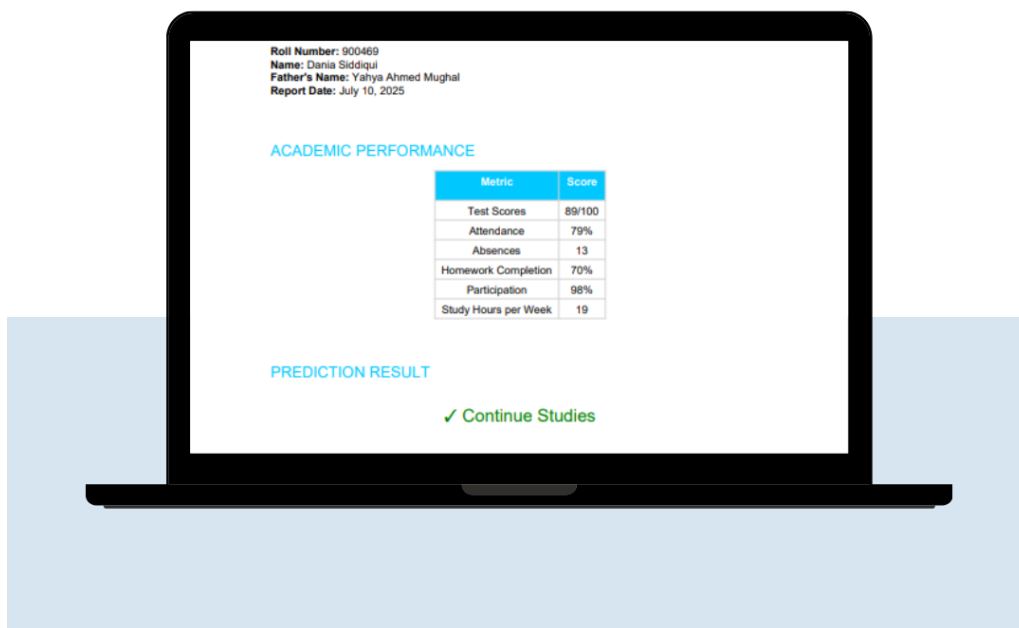
PDF Report Generation

6.1. Individual Report

- Go to My Predictions.
- Click Download Report next to any student.
- You'll get a detailed PDF report with:
 - Student Info
 - Scores
 - Prediction Result
 - Recommendations

6.2. All Predictions Report

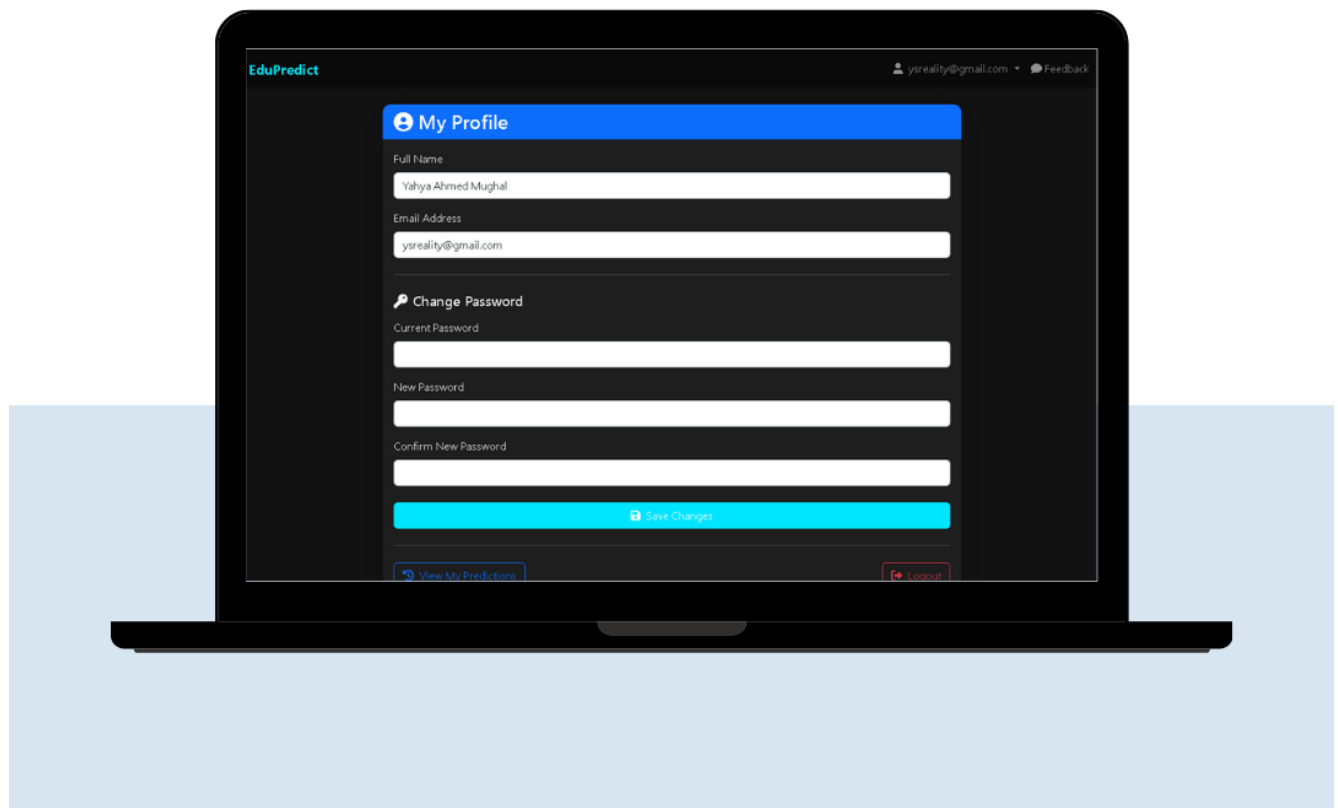
- Go to Download All Predictions from the menu.
- A single PDF containing all predictions will be generated.



Profile Management

7.1. Update Profile

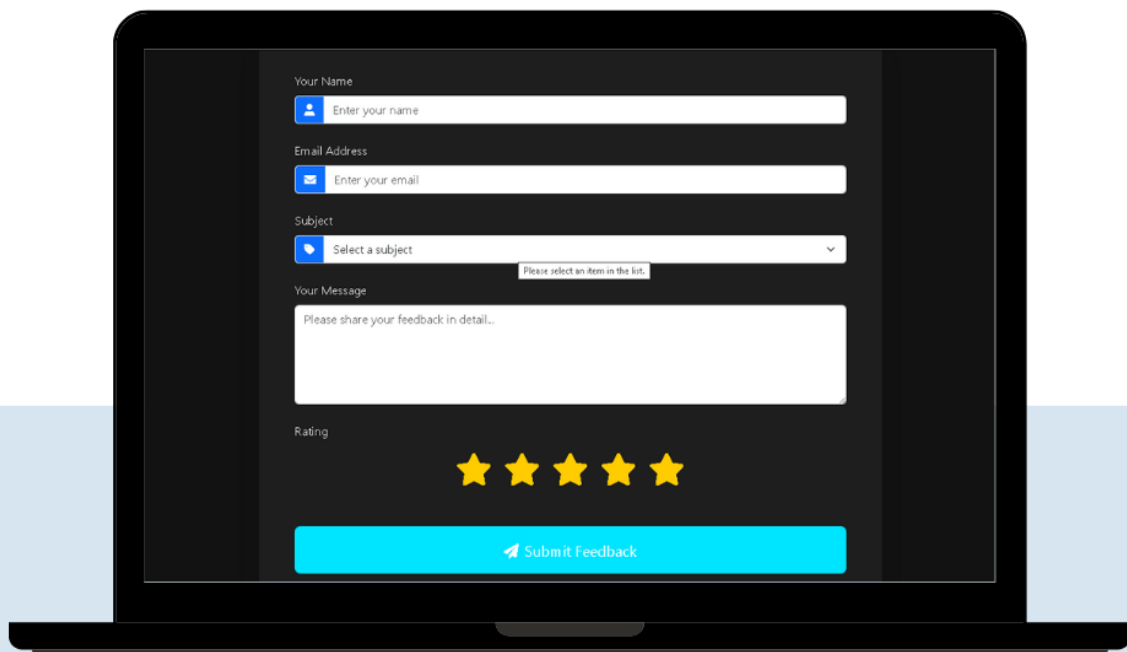
- Click on Profile.
- Change your name or update your password.
- Current password is required to change to a new one.



Submit Feedback

8.1. Share Your Thoughts

- Visit the Feedback page.
- Enter:
 - Name
 - Email
 - Subject
 - Message
 - Rating (1-5)
- Submit your feedback to help improve EduPredict.



The image shows a laptop screen with a feedback form. The form is titled 'Submit Feedback' and contains the following fields:

- Your Name:** A text input field with a placeholder 'Enter your name' and a blue icon of a person.
- Email Address:** A text input field with a placeholder 'Enter your email' and a blue icon of an envelope.
- Subject:** A dropdown menu with a blue icon of a speech bubble and the text 'Select a subject'. A small tooltip below the dropdown says 'Please select an item in the list.'
- Your Message:** A large text area with a placeholder 'Please share your feedback in detail...'.
- Rating:** Five yellow stars.
- Submit Feedback:** A blue button with a white arrow icon and the text 'Submit Feedback'.

Thank You