

INTRODUCTION

Project Overview

The project "Unleashing the Potential of Youth: A Student Performance Analysis" aims to evaluate and analyze the academic performance and potential of students. By understanding their strengths and areas of improvement, the project aims to provide targeted interventions and support to maximize their potential.

Improved Academic Outcomes, Academic Performance, Identification of Potential, Early Warning System and Collaboration with Stakeholders.

It's important to note that the specific details and outcomes of the project can vary depending on its implementation and the context in which it is carried out.

Purpose

Identify Strengths and Areas of Improvement by analyzing student performance data, the project seeks to identify the areas where students can improve. This information helps in developing targeted interventions and support strategies to enhance their academic performance. Provide Targeted Interventions is the project aims to develop personalized learning plans and intervention strategies based on the analysis of student performance. These interventions may include additional tutoring, mentoring, workshops, or counseling services designed to address specific needs and help.

LITERATURE SURVEY

Student performance analysis:

Student performance analysis involves assessing and evaluating students' academic achievements, behaviors, and progress. It includes various aspects such as grades, test scores,

attendance records, behavioral observations, and feedback from teachers. Performance analysis helps educators and researchers gain insights into students' strengths, weaknesses, and areas for improvement

Potential and Talent Development:

Unleashing the potential of youth refers to recognizing and cultivating the unique abilities and talents that individuals possess. It involves identifying and nurturing their strengths, passions, and skills to help them reach their fullest potential. Talent development programs often focus on providing enrichment opportunities, mentorship, and specialized training in specific areas such as academics, arts, sports, or leadership.

Personalized Learning:

Personalized learning aims to tailor education to individual students' needs, interests, and abilities. It involves designing instructional strategies, curricula, and learning environments that allow students to learn at their own pace and in ways that align with their learning styles. Personalized learning approaches can optimize student engagement, motivation, and achievement.

Problem Statement:

The problem is further compounded by the presence of achievement gaps among different student groups, such as those based on socio-economic status, race, or gender. These disparities result in unequal opportunities and hinder the equitable development of students' potential.

USE CASE:

In a school district, administrators and educators are concerned about the varying academic performance and potential of their students. They want to implement a project called "Unleashing the Potential of Youth: A Student Performance Analysis" to better understand student performance, identify areas of improvement, and provide targeted interventions to maximize their potential.

Social Impact:

The project's social impact lies in its ability to empower students, promote equity, and contribute to the development of individuals and communities. By unlocking the potential of youth through targeted interventions and personalized support, the project can create a more inclusive and thriving society.

Business impact:

The project can have business impacts by driving improvements in education outcomes, fostering collaboration, spurring innovation in education technology, creating consulting and professional development opportunities, attracting social impact investment, and enhancing brand image.

Ideation Phase

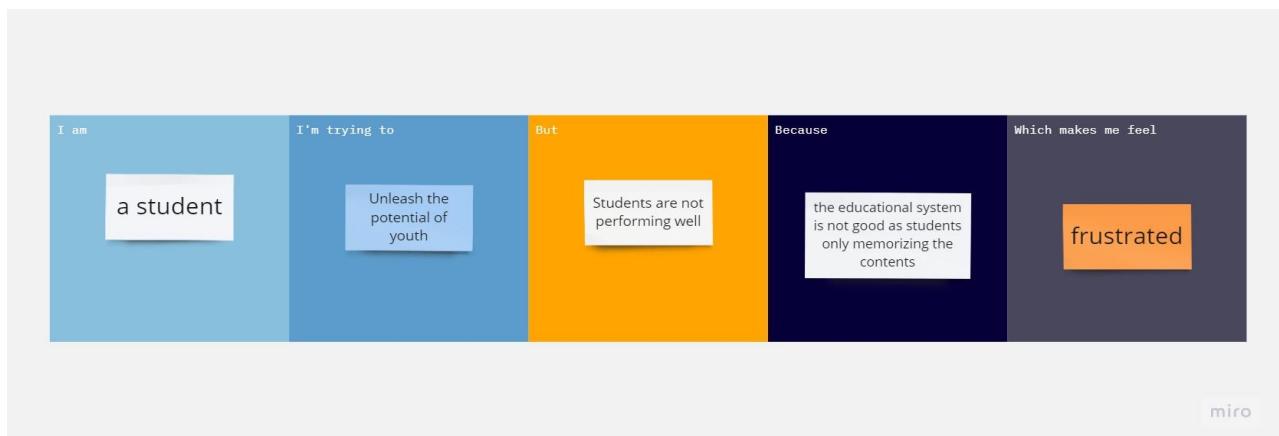
Define the Problem Statements

Date	06 May 2023
Team ID	NM2023TMID01158
Project Name	UNLEASHING THE POTENTIAL OF YOUTH: A STUDENT PERFORMANCE ANALYSIS

Reference link:

https://miro.com/welcomeonboard/dUt2UzlybHBQTXdNaFlsbHV0TEh6RFVrbk9qa3Zod0R1YlFEY2pndUs5cWYxUjBjbWoweHV4QnlnNnA3ZnFyd3wzNDU4NzY0NTM2MjE1NTQwMDkxfDI=?share_link_id=573140036083

PROBLEM STATEMENT:



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A student	Unleash the potential of youth	Students are not performing well	The educational system is not good	Frustrated
PS-2	A student	Find the power of young students.	They didn't have the potential	They didn't have knowledge	Irresponsible

Ideation Phase

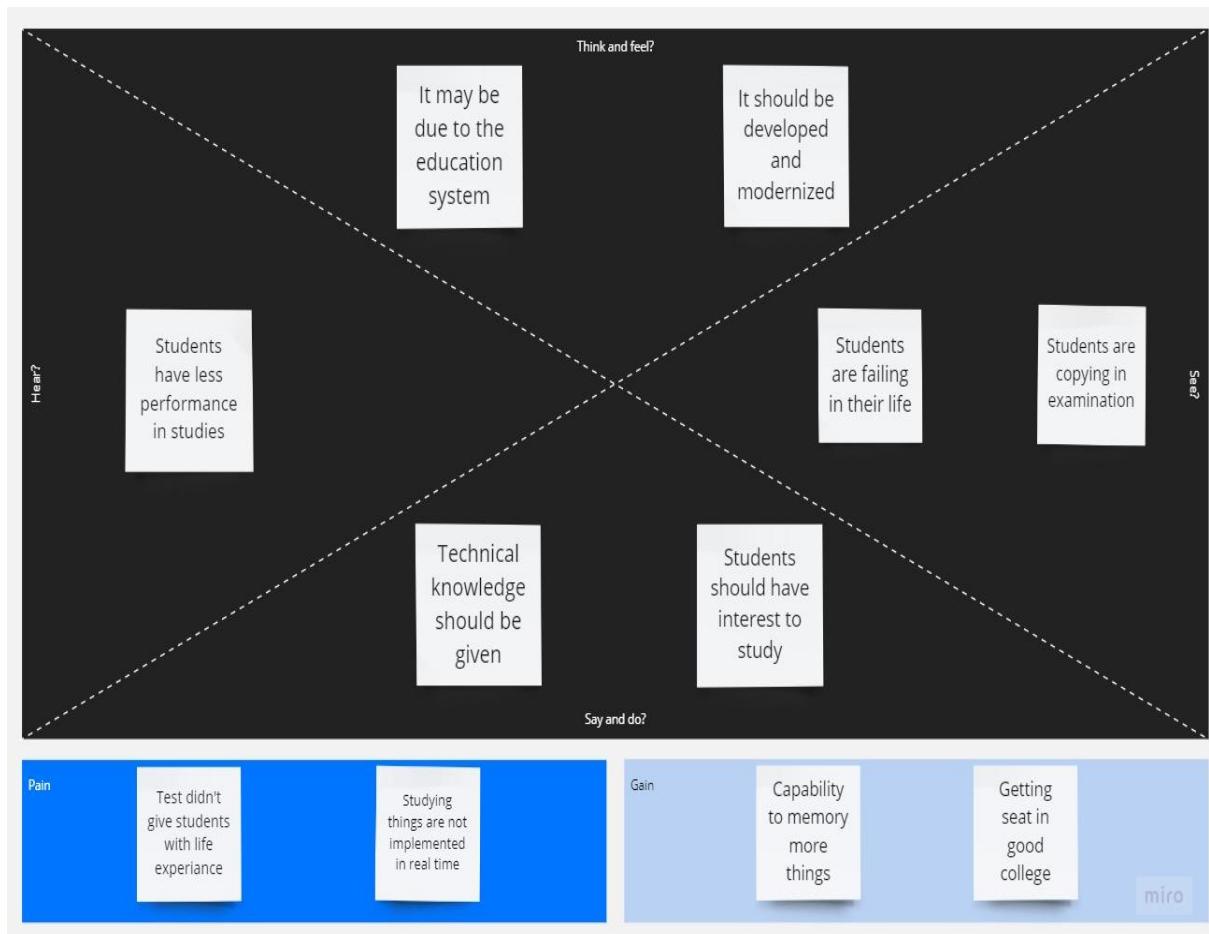
Empathize & Discover

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Reference link:

https://miro.com/welcomeonboard/cXdSekdpcDMwQlptZmpVVnFXYm5sRWdzUFNEWXjDaFJYakJsM2FWMHI0SFNiMUDQVVJMaE9mQmkxRDQ5S2pTRnwzNDU4NzY0NTM2MjE1NTQwMDkxfDI=?share_link_id=747354320794

EMPATHY MAP:



Project Design Phase-I
Proposed Solution Template

Date	10 May 2023
Team ID	NM2023TMID01158
Project Name	Unleashing the Potential of Youth:A student Performance Analysis.

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Students have less Performance in studies. Students are falling in their life.Studying things are not implemented in real time. Students are copying in their examination.
2.	Idea / Solution description	Technical knowledge should be given to the students.Students should have interest to study. The education system should be developed and modernized.
3.	Novelty / Uniqueness	Self learning is the important one which every students should improve.Many factors can influence the students performance including the influence of parents educational background ans so on.
4.	Social Impact / Customer Satisfaction	A country's growth is strongly measured by Quality of its education system.Education sector, across the globe has witnessed see change in its functioning.
5.	Business Model (Revenue Model)	Teaching method should be modernized. Students should study their own.Group studies are approached.Test are should be more efficient .Students satisfaction should be welcomed.

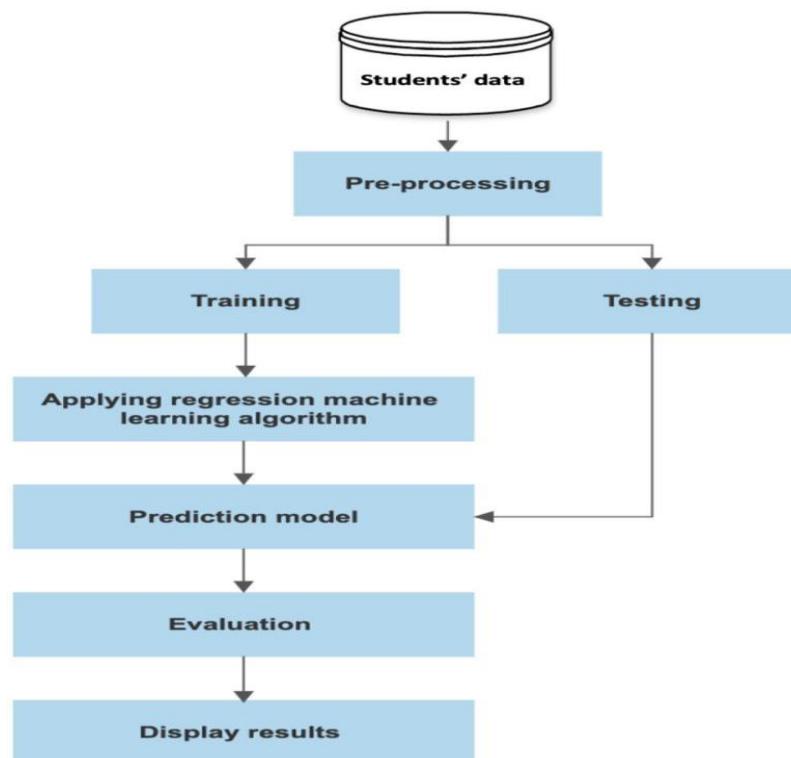
6.	Scalability of the Solution	The sales and purchase of our product is scalable and expandable. This could be supplied to various local and international outlets also to governmental organization's for environment monitoring and control. Tbis increases revenue utilisation as well as exposure.
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Project Design Phase-II

Data Flow Diagram & User Stories

Date	12 May 2023
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Project Name	Unleashing the Potential of Youth: A student Performance Analysis.

Data Flow Diagrams: A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
Customer(Students)	Registration	USN-1	As a user once I visited the website for sign up I will enter the credentials like name, email id, password etc....	I can access my account in Google	High	Ramya
		USN-2	As a user I can also signup with my Google account.	I can receive confirmation email & click confirm	High	Ruba
		USN-3	As a user, I can register for the application through social medias.	I can register & access the dashboard with Facebook Login	Medium	Poomani
		USN-4	As a user, I can register for the application through face book		Medium	Priya
	Login	USN-5	Once I get registered, I will receive a confirmation mail.	I can register & access the dashboard with Facebook Login	High	Poomani
	Dashboard	USN-6	By login I will get into the website dashboard.	All the information about the website are given in the dashboard.	High	Ruba
Performance	Registration	USN-7	As a user, I will receive confirmation email once I have registered for the application	By giving this credential details I can access my account or Dashboard.	Low	Ramya
		USN-8	As a user once I visited the website for signup I will enter the credentials like name, email	Through confirmation mail I have get into the website	Medium	Sunali
Analysis	Registration	USN-9	As a user I can also signup with my Google account.	By entering my Facebook details I can get sign in with the website.	Low	Ruba
	Login	USN-10	After getting signup, I can login into the website by entering the email and password.	Once I get the login I can enter the dashboard of the website.	High	Sunali
Administrator	Maintenance	USN-11	As a administrator I can maintain all the activities of the website.	Administrator must maintain all activities of both the all students performance.	Medium	Suganya

Ideation Phase

Brainstorm & Idea Prioritization Template

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Project Name	UNLEASHING THE POTENTIAL OF YOUTH: A STUDENT PERFORMANCE ANALYSIS

Reference link:

<https://app.mural.co/invitation/mural/smartbridge5254/1683369046854?sender=ue20e29663714ca16df2c5514&key=5cf49b8f-ffec-41db-8da4-3d9111061797>

Team Gathering, Collaboration and Select the Problem Statement:

The screenshot shows a template for a brainstorming session. On the left, there's a sidebar with a lightbulb icon and the title "Brainstorm & idea prioritization". It includes instructions: "Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room." Below this are time estimates: "10 minutes to prepare", "1 hour to collaborate", and "2-8 people recommended". At the bottom of the sidebar is a button "Share template feedback".

The main content area is divided into three columns:

- Before you collaborate:** Step 1, indicated by a blue circle with a white arrow. It includes a brief description: "A little bit of preparation goes a long way with this session. Here's what you need to do to get going.", a timer icon showing "10 minutes", and a list of tasks:
 - A Team gathering:** Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.
 - B Set the goal:** Think about the problem you'll be focusing on solving in the brainstorming session.
 - C Learn how to use the facilitation tools:** Use the Facilitation Superpowers to run a happy and productive session.
- Define your problem statement:** Step 2, indicated by a blue circle with the number "1". It includes a brief description: "What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.", a timer icon showing "5 minutes", and a box labeled "PROBLEM" containing the text "How might we analyze the students performance?".
- Key rules of brainstorming:** Step 3, indicated by a blue circle with a brain icon. It includes a brief description: "To run a smooth and productive session", a list of rules with icons:
 - Stay in topic.
 - Encourage wild ideas.
 - Defer judgment.
 - Listen to others.
 - Go for volume.
 - If possible, be visual.

Brainstorm, Idea Listing and Grouping:

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

⌚ 10 minutes

TIP
You can select a sticky note and hit the pencil (brush to sketch) icon to start drawing!

Person 1	Person 2
Students are only studying	Student satisfaction should be welcomed
Teaching method should me modernized	Test are not efficient
Self learning is important	Teaching should be efficient

Person 3	Person 4
Copying from others are increased	Group studies are approached
Practical knowledge should me improved	Should study on their own
No one is interested in studying	Asking doubt will increase students knowledge

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

⌚ 20 minutes

TIP
Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mindmap.

Self learning is important	Asking doubt will increase students knowledge	Practical knowledge should me improved
Copying from others are increased	Student satisfaction should be welcomed	Test are not efficient

Idea Prioritization:

4

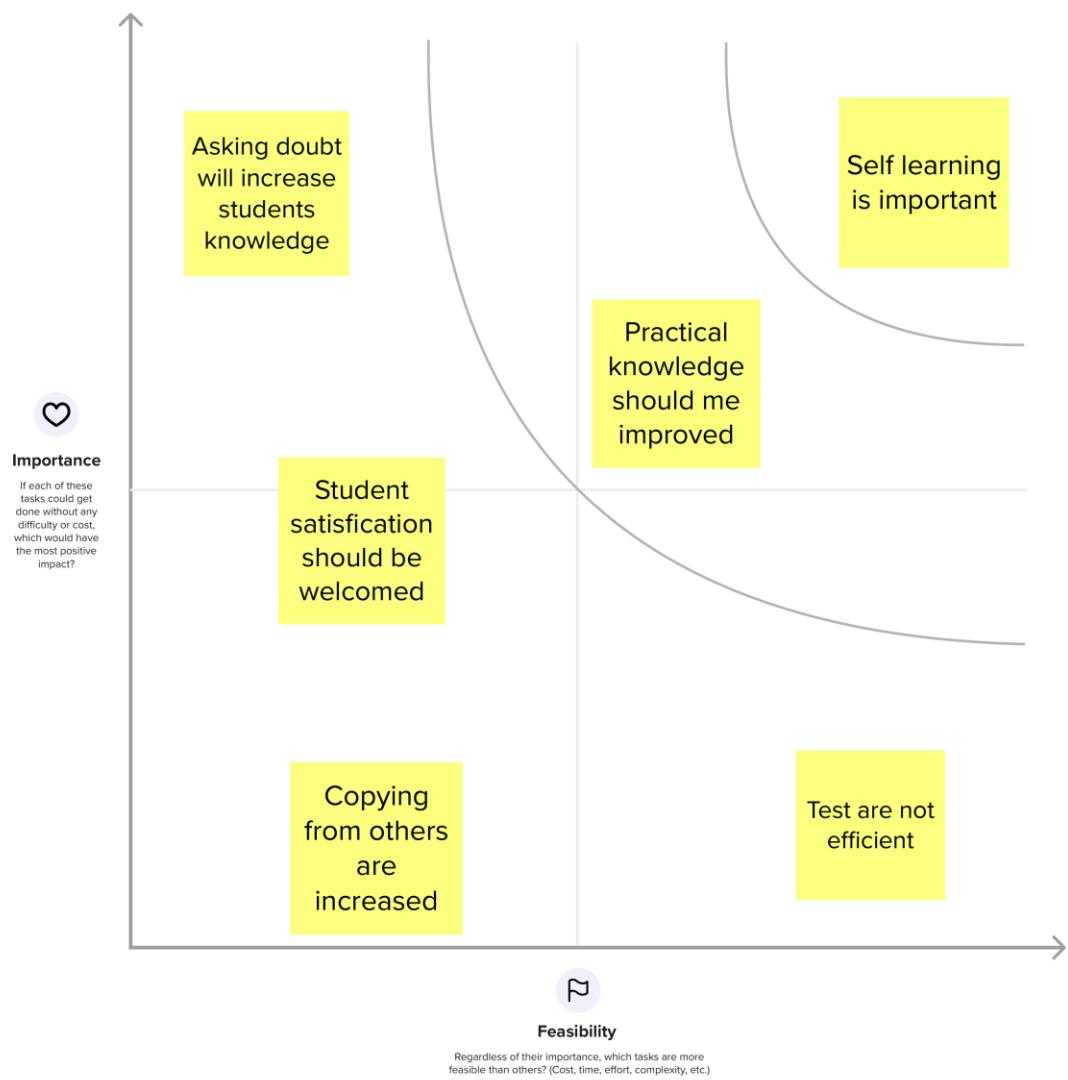
Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

⌚ 20 minutes

TIP

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H** key on the keyboard.



Project Design Phase-I
Solution Architecture

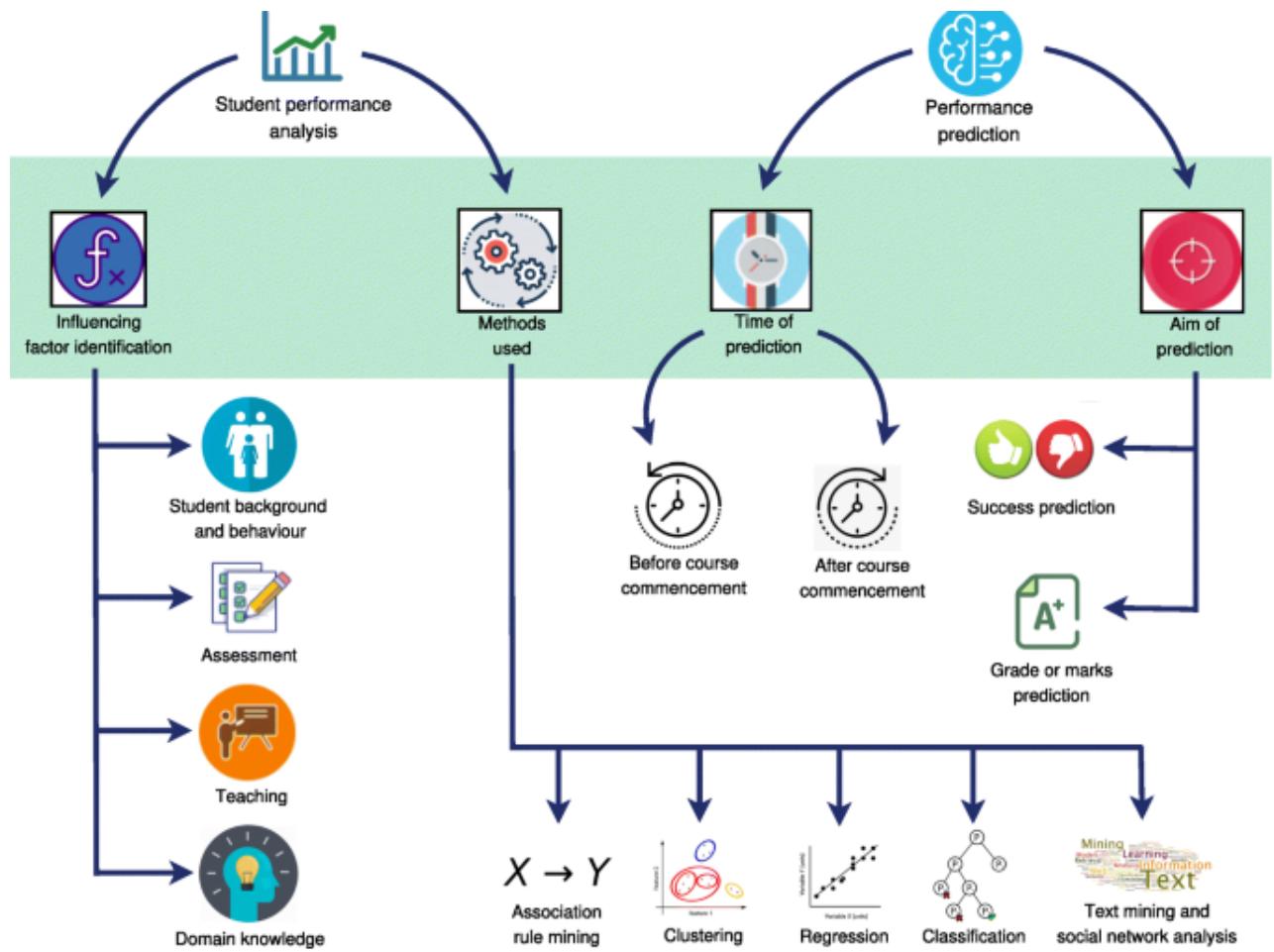
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Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

Example - Solution Architecture Diagram:



Project Design Phase-II

Technology Stack (Architecture & Stack)

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Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

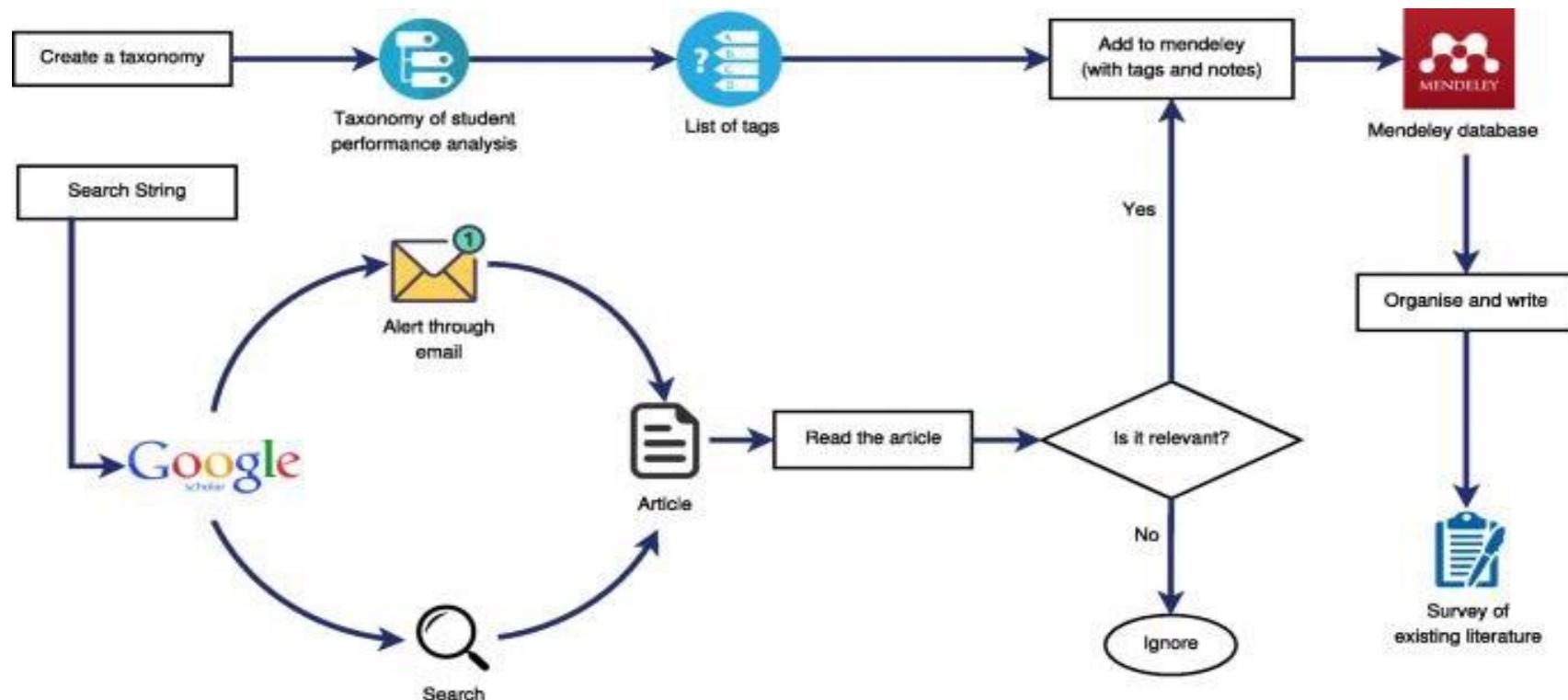


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	A description of the key User Interface elements are Login, dashboard, students list, Individual Student Profiles, Performance Analysis Tools,etc.	HTML, CSS, JavaScript / Angular Js / React Js, Java
2.	Application Logic-1	User Authentication: The application will have a user authentication system to ensure that only authorized users can access student performance data.	Python,sigma conso
3.	Application Logic-2	Student Data Management: This includes adding new students to the system, updating their personal information, and assigning them to appropriate classes or grade levels.	Local, Cloud Foundry, Kubernetes, etc.
4.	Application Logic-3	Performance Tracking: The application will track and store historical performance data to enable users to compare and track student progress over time.	IBM Watson Assistant
5.	Database	The database should also incorporate proper security measures, encrypted storage, user authentication, access controls, to ensure the privacy and protection of student data.	MySQL, NoSQL, etc.
6.	Cloud Database	The project allows for efficient data management, scalability, and enhanced accessibility while leveraging the benefits of cloud computing .	IBM DB2, IBM Cloudant etc.
7.	File Storage	This suggested structure serves as a starting point and can be customized to suit your organization's requirements and file management practices of the user folder and sub folder.	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Student Data Retrieval: The API provides endpoints to retrieve student data, including academic achievements, assessment results, ect.	IBM Weather API, etc.
9.	External API-2	Progress Tracking: The API offers endpoints to track student progress over time.	Aadhar API, etc.
10.	Machine Learning Model	The program is an advanced machine learning system designed to extract meaningful insights	Object Recognition Model, etc.

		from various data sources and provide a deeper understanding of student performance and growth.	
11.	Infrastructure (Server / Cloud)	The program typically involves a combination of server and cloud-based technologies to support the storage, processing, and accessibility of data. Local Server Configuration: Hardware, Operating system, Web server, ect. Cloud Server Configuration : Cloud provider, virtual machines,ect	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The open source frameworks used are Tensor flow, Open CV, Apache Spark.	SciKit-Learn, Apache Kafka
2.	Security Implementations	The security Implementations are Data Anonymization, regular security audits, Backup and recovery.	SHA-256, Encryptions , IAM controls , OWASP etc
3.	Scalable Architecture	System architecture is designed with the ability Of adding more computing resources or sensors as the traffic volume increases and as a cloud based infrastructure.	Apache spark , Apache kafka , Docker
4.	Availability	High performance infrastructure, Monitoring and Alerting, Scalability and Elasticity.	Load Balancers , Redundant and Distributed systems
5.	Performance	The performance depends on the accuracy and quality of machine learning models which are achieved by using advanced machine learning techniques.	Python, Tensor flow

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

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Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Business requirement	Answer for the ultimate goal of the system. Here you can also mention things like approval workflows and authorization levels.
FR-2	Administrative requirement	Mention the routine things the system will do, such as reporting
FR-3	User requirement	These requirements describe what the user can do, like placing an order or browsing an online catalog.
FR-4	System requirement	Describe software and hardware specifications, system responses, and system actions.
FR-5	Data requirement	Establishes the process used to identify, prioritize, precisely formulate, and validate the data needed to achieve business objectives.
FR-6	Certification requirement	Regulatory requirements in this area have become a lot stricter in recent times.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Indicates how effectively and easy users can learn and use a system.
NFR-2	Security	Assuring all data inside the system or its part will be protected against malware attacks or unauthorized access.
NFR-3	Reliability	Specifies how likely the system or its element would run without a failure for a given period of time under predefined conditions.
NFR-4	Performance	Defines how fast a software system or a particular piece of it responds to certain users' actions under a certain workload
NFR-5	Availability	Describes how likely the system is accessible to a user at a given point in time.
NFR-6	Scalability	Assesses the highest workloads under which the system will still meet the performance requirements.

STUDENT PERFORMANCE ANALYSIS BASED ON DATA ANALYTICS

CODING & SOLUTIONING:

```
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="utf-8">
<meta content="width=device-width, initial-scale=1.0" name="viewport">

<title>Literacy Rate</title>
<meta content="" name="description">
<meta content="" name="keywords">

<!-- Favicon -->
<link href="assets/img/favicon.png" rel="icon">
<link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">

<!-- Google Fonts -->
<link
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Krub:300,300i,400,400i,500,500i,600,600i,700,700i|Poppins:300,300i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">

<!-- Vendor CSS Files -->
<link href="assets/vendor/aos/aos.css" rel="stylesheet">
<link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
<link href="assets/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
<link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
<link href="assets/vendor/lightbox/css/lightbox.min.css" rel="stylesheet">
<link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">

<!-- Template Main CSS File -->
<link href="assets/css/style.css" rel="stylesheet">

<!-- ===== * Template Name: Bikin
* Updated: Mar 10 2023 with Bootstrap v5.2.3
* Template URL: https://bootstrapmade.com/bikin-free-simple-landing-page-template/
* Author: BootstrapMade.com
* License: https://bootstrapmade.com/license/ -->
===== -->
</head>

<body>

<!-- ===== Header ===== -->
<header id="header" class="fixed-top">
<div class="container d-flex align-items-center justify-content-between">

<h1 class="logo"><a href="index.html">STUDENT PERFORMANCE ANALYSIS</a></h1>
<!-- Uncomment below if you prefer to use an image logo -->
<!-- <a href="index.html" class="logo"></a>-->
```

```

<nav id="navbar" class="navbar">
<ul>
<li><a class="nav-link scrollto active" href="#hero">Home</a></li>
<li><a class="nav-link scrollto" href="#about">Dashboard</a></li>
<li><a class="nav-link scrollto" href="#portfolio">Report</a></li>
<li><a class="nav-link scrollto" href="#team">Story</a></li>

<i class="bi bi-list mobile-nav-toggle"></i>
</nav><!-- .navbar -->

</div>
</header><!-- End Header -->

<!-- ===== Hero Section ===== -->
<section id="hero" class="d-flex align-items-center">

<div class="container d-flex flex-column align-items-center justify-content-center" data-aos="fade-up">
<h1>WELCOME TO STUDENT ACADEMIC PERFORMANCE ANALYSIS</h1>
<h2>Academic performance is the measurement of student achievement across various academic subjects</h2>
<a href="#about" class="btn-get-started scrollto">Get Started</a>

</div>

</section><!-- End Hero -->

<main id="main">

<!-- ===== About Section ===== -->
<section id="about" class="about">
<div class="container">

</div>
</section><!-- End About Section -->

<!-- ===== Clients Section ===== -->
</section><!-- End Clients Section -->

<!-- ===== Features Section ===== -->
<section id="features" class="features" data-aos="fade-up">
<div class="container">

<div class="section-title">
<h3>Dashboard</h3>
</div>




</div>
</section><!-- End Features Section -->

<!-- ===== Steps Section ===== -->
<section id="steps" class="steps">
<div class="container">

</div>
</section><!-- End Services Section -->

<!-- ===== Portfolio Section ===== -->

```

```

<section id="portfolio" class="portfolio">
<div class="container" data-aos="fade-up">

<div class="section-title">
<h3>REPORT<h3>

</div>


</div>
</section><!-- End Portfolio Section -->

<!-- ===== Team Section ===== -->
<section id="team" class="team">
<div class="container" data-aos="fade-up">

<div class="section-title">
<h2>STORY</h2>






</div>
</section><!-- End Team Section -->

<!-- ===== Pricing Section ===== -->
<section id="pricing" class="pricing section-bg">
<div class="container" data-aos="fade-up">

<div class="section-title">
<h2>Pricing</h2>
<p>Magnam dolores commodi suscipit. Necessitatibus eius consequatur ex aliquid fuga eum quidem. Sit sint consectetur velit. Quisquam quos quisquam cupiditate. Et nemo qui impedit suscipit alias ea. Quia fugiat sit in iste officiis commodi quidem hic quas.</p>
</div>

<div class="row">

<div class="col-lg-4 col-md-6" data-aos="zoom-in" data-aos-delay="200">
<div class="box">
<h3>Free</h3>
<h4><sup>$</sup>0<span> / month</span></h4>
<ul>
<li>Aida dere</li>
<li>Nec feugiat nisl</li>
<li>Nulla at volutpat dola</li>
<li class="na">Pharetra massa</li>
<li class="na">Massa ultricies mi</li>
</ul>
<div class="btn-wrap">
<a href="#" class="btn-buy">Buy Now</a>
</div>
</div>
</div>

<div class="col-lg-4 col-md-6 mt-4 mt-md-0" data-aos="zoom-in" data-aos-delay="100">
<div class="box featured">
<h3>Business</h3>
<h4><sup>$</sup>19<span> / month</span></h4>
<ul>
<li>Aida dere</li>

```

```

<li>Nec feugiat nisl</li>
<li>Nulla at volutpat dola</li>
<li>Pharetra massa</li>
<li class="na">Massa ultricies mi</li>
</ul>
<div class="btn-wrap">
<a href="#" class="btn-buy">Buy Now</a>
</div>
</div>
</div>

<div class="col-lg-4 col-md-6 mt-4 mt-lg-0" data-aos="zoom-in" data-aos-delay="200">
<div class="box">
<h3>Developer</h3>
<h4><sup>29</sup>/ month</h4>
<ul>
<li>Aida dere</li>
<li>Nec feugiat nisl</li>
<li>Nulla at volutpat dola</li>
<li>Pharetra massa</li>
<li>Massa ultricies mi</li>
</ul>
<div class="btn-wrap">
<a href="#" class="btn-buy">Buy Now</a>
</div>
</div>
</div>

</div>
</div>
</section><!-- End Pricing Section -->

<!-- ===== Frequently Asked Questions Section ===== -->
<section id="faq" class="faq">
<div class="container" data-aos="fade-up">

<div class="section-title">
<h2>Frequently Asked Questions</h2>
</div>

<ul class="faq-list">

<li>
<div data-bs-toggle="collapse" class="collapsed question" href="#faq1">Non consectetur a erat nam at lectus urna duis? <i class="bi bi-chevron-down icon-show" style="font-size: 1em; margin-right: 0.2em;"></i><i class="bi bi-chevron-up icon-close" style="font-size: 1em; margin-right: 0.2em;"></i></div>
<div id="faq1" class="collapse" data-bs-parent=".faq-list">
<p>Feugiat premium nibh ipsum consequat. Tempus iacus urna id volutpat lacus laoreet non curabitur gravida. Venenatis lectus magna fringilla urna porttitor rhoncus dolor purus non.</p>
</div>
</li>

<li>
<div data-bs-toggle="collapse" href="#faq2" class="collapsed question">Feugiat scelerisque varius morbi enim nunc faucibus a pellentesque? <i class="bi bi-chevron-down icon-show" style="font-size: 1em; margin-right: 0.2em;"></i><i class="bi bi-chevron-up icon-close" style="font-size: 1em; margin-right: 0.2em;"></i></div>
<div id="faq2" class="collapse" data-bs-parent=".faq-list">
<p>Dolor sit amet consectetur adipiscing elit pellentesque habitant morbi. Id interdum velit laoreet id donec ultrices. Fringilla phasellus faucibus scelerisque eleifend donec pretium. Est pellentesque elit ullamcorper dignissim. Mauris ultrices eros in cursus turpis massa tincidunt dui.</p>
</div>
</li>

<li>

```

```

<div data-bs-toggle="collapse" href="#faq3" class="collapsed question">Dolor sit amet consectetur adipiscing elit pellentesque habitant morbi?<i class="bi bi-chevron-down icon-show"></i><i class="bi bi-chevron-up icon-close"></i></div>
<div id="faq3" class="collapse" data-bs-parent=".faq-list">
<p>
Eleifend mi in nulla posuere sollicitudin aliquam ultrices sagittis orci. Faucibus pulvinar elementum integer enim. Sem nulla pharetra diam sit amet nisl suscipit. Rutrum tellus pellentesque eu tincidunt. Lectus urna duis convallis convallis tellus. Urna molestie at elementum eu facilisis sed odio morbi quis
</p>
</div>
</li>

<li>
<div data-bs-toggle="collapse" href="#faq4" class="collapsed question">Ac odio tempor orci dapibus. Aliquam eleifend mi in nulla? <i class="bi bi-chevron-down icon-show"></i><i class="bi bi-chevron-up icon-close"></i></div>
<div id="faq4" class="collapse" data-bs-parent=".faq-list">
<p>
Dolor sit amet consectetur adipiscing elit pellentesque habitant morbi. Id interdum velit laoreet id donec ultrices. Fringilla phasellus faucibus scelerisque eleifend donec pretium. Est pellentesque elit ullamcorper dignissim. Mauris ultrices eros in cursus turpis massa tincidunt dui.
</p>
</div>
</li>

<li>
<div data-bs-toggle="collapse" href="#faq5" class="collapsed question">Tempus quam pellentesque nec nam aliquam sem et tortor consequat?<i class="bi bi-chevron-down icon-show"></i><i class="bi bi-chevron-up icon-close"></i></div>
<div id="faq5" class="collapse" data-bs-parent=".faq-list">
<p>
Molestie a iaculis at erat pellentesque adipiscing commodo. Dignissim suspendisse in est ante in. Nunc vel risus commodo viverra maecenas accumsan. Sit amet nisl suscipit adipiscing bibendum est. Purus gravida quis blandit turpis cursus in
</p>
</div>
</li>

<li>
<div data-bs-toggle="collapse" href="#faq6" class="collapsed question">Tortor vitae purus faucibus ornare. Varius vel pharetra vel turpis nunc eget lorem dolor? <i class="bi bi-chevron-down icon-show"></i><i class="bi bi-chevron-up icon-close"></i></div>
<div id="faq6" class="collapse" data-bs-parent=".faq-list">
<p>
Laoreet sit amet cursus sit amet dictum sit amet justo. Mauris vitae ultricies leo integer malesuada nunc vel. Tincidunt eget nullam non nisi est sit amet. Turpis nunc eget lorem dolor sed. Ut venenatis tellus in metus vulputate eu scelerisque. Pellentesque diam volutpat commodo sed egestas egestas fringilla phasellus faucibus. Nibh tellus molestie nunc non blandit massa enim nec.
</p>
</div>
</li>

</ul>
</div>
</section><!-- End Frequently Asked Questions Section -->

<!-- ===== Contact Section ===== -->
<section id="contact" class="contact section-bg">
<div class="container" data-aos="fade-up">

<div class="section-title">
<h2>Contact</h2>
<p>Magnam dolores commodi suscipit. Necessitatibus eius consequatur ex aliquid fuga eum quidem. Sit sint consectetur velit. Quisquam quos quisquam cupiditate. Et nemo qui impedit suscipit alias ea. Quia fugiat sit in iste officiis commodi quidem hic quas.</p>
</div>

<div class="row">
<div class="col-lg-6">
<div class="row">
<div class="col-md-12">

```

```

<div class="info-box">
<i class="bx bx-map"></i>
<h3>Our Address</h3>
<p>A108 Adam Street, New York, NY 535022</p>
</div>
</div>
<div class="col-md-6">
<div class="info-box mt-4">
<i class="bx bx-envelope"></i>
<h3>Email Us</h3>
<p>info@example.com<br>contact@example.com</p>
</div>
</div>
<div class="col-md-6">
<div class="info-box mt-4">
<i class="bx bx-phone-call"></i>
<h3>Call Us</h3>
<p>+1 5589 55488 55<br>+1 6678 254445 41</p>
</div>
</div>
</div>

</div>

<div class="col-lg-6 mt-4 mt-md-0">
<form action="forms/contact.php" method="post" role="form" class="php-email-form">
<div class="row">
<div class="col-md-6 form-group">
<input type="text" name="name" class="form-control" id="name" placeholder="Your Name" required>
</div>
<div class="col-md-6 form-group mt-3 mt-md-0">
<input type="email" class="form-control" name="email" id="email" placeholder="Your Email" required>
</div>
</div>
<div class="form-group mt-3">
<input type="text" class="form-control" name="subject" id="subject" placeholder="Subject" required>
</div>
<div class="form-group mt-3">
<textarea class="form-control" name="message" rows="5" placeholder="Message" required></textarea>
</div>
<div class="my-3">
<div class="loading">Loading</div>
<div class="error-message"></div>
<div class="sent-message">Your message has been sent. Thank you!</div>
</div>
<div class="text-center"><button type="submit">Send Message</button></div>
</form>
</div>

</div>
</div>
</section><!-- End Contact Section -->

</main><!-- End #main -->

<!-- ===== Footer ===== -->
<footer id="footer">

<div class="footer-top">
<div class="container">
<div class="row">

<div class="col-lg-3 col-md-6 footer-contact">
<h3>Bikin</h3>
<p>
```

```

A108 Adam Street<br>
New York, NY 535022<br>
United States <br><br>
<strong>Phone:</strong> +1 5589 55488 55<br>
<strong>Email:</strong> info@example.com<br>
</p>
</div>

<div class="col-lg-2 col-md-6 footer-links">
<h4>Useful Links</h4>
<ul>
<li><i class="bx bx-chevron-right"></i> <a href="#">Home</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">About us</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Services</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Terms of service</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Privacy policy</a></li>
</ul>
</div>

<div class="col-lg-3 col-md-6 footer-links">
<h4>Our Services:</h4>
<ul>
<li><i class="bx bx-chevron-right"></i> <a href="#">Web Design</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Web Development</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Product Management</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Marketing</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Graphic Design</a></li>
</ul>
</div>

<div class="col-lg-4 col-md-6 footer-newsletter">
<h4>Join Our Newsletter</h4>
<p>Tamen quem nulla quae legam multos aute sint culpa legam noster magna</p>
<form action="" method="post">
<input type="email" name="email"><input type="submit" value="Subscribe">
</form>
</div>

</div>
</div>
</div>

<div class="container d-md-flex py-4">

<div class="me-md-auto text-center text-md-start">
<div class="copyright">
&copy; Copyright <strong><span>Bikin</span></strong>. All Rights Reserved
</div>
<div class="credits">
<!-- All the links in the footer should remain intact. -->
<!-- You can delete the links only if you purchased the pro version. -->
<!-- Licensing information: https://bootstrapmade.com/license/ -->
<!-- Purchase the pro version with working PHP/AJAX contact form: https://bootstrapmade.com/bikin-free-simple-landing-page-template/ -->
Designed by <a href="https://bootstrapmade.com/">BootstrapMade</a>
</div>
</div>
<div class="social-links text-center text-md-right pt-3 pt-md-0">
<a href="#" class="twitter"><i class="bx bxl-twitter"></i></a>
<a href="#" class="facebook"><i class="bx bxl-facebook"></i></a>
<a href="#" class="instagram"><i class="bx bxl-instagram"></i></a>
<a href="#" class="google-plus"><i class="bx bxl-skype"></i></a>
<a href="#" class="linkedin"><i class="bx bxl-linkedin"></i></a>
</div>
</div>
</div><!-- End Footer -->
```

```
<div id="preloader"></div>
<a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i class="bi bi-arrow-up-short"></i></a>


<script src="assets/vendor/aos/aos.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
<script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
<script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
<script src="assets/vendor/php-email-form/validate.js"></script>


<script src="assets/js/main.js"></script>

</body>

</html>
```

Project Development Phase

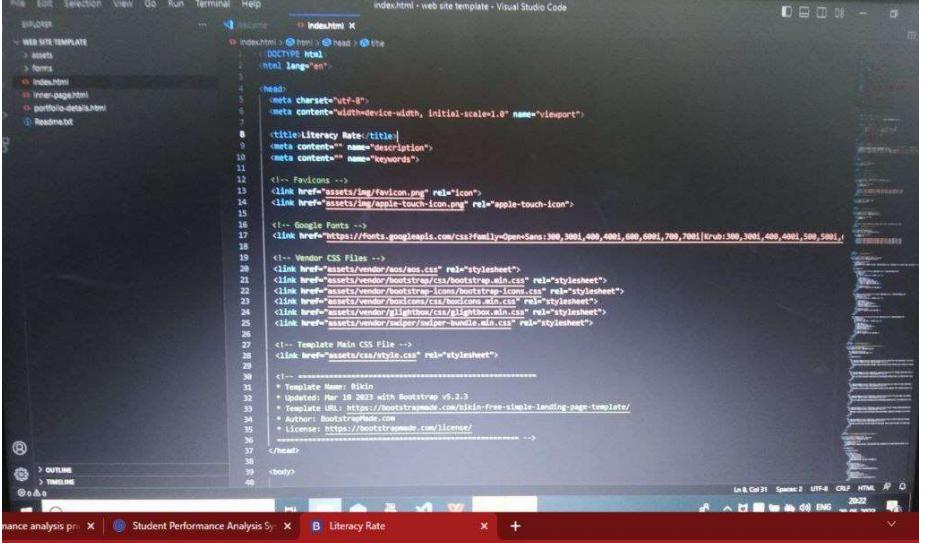
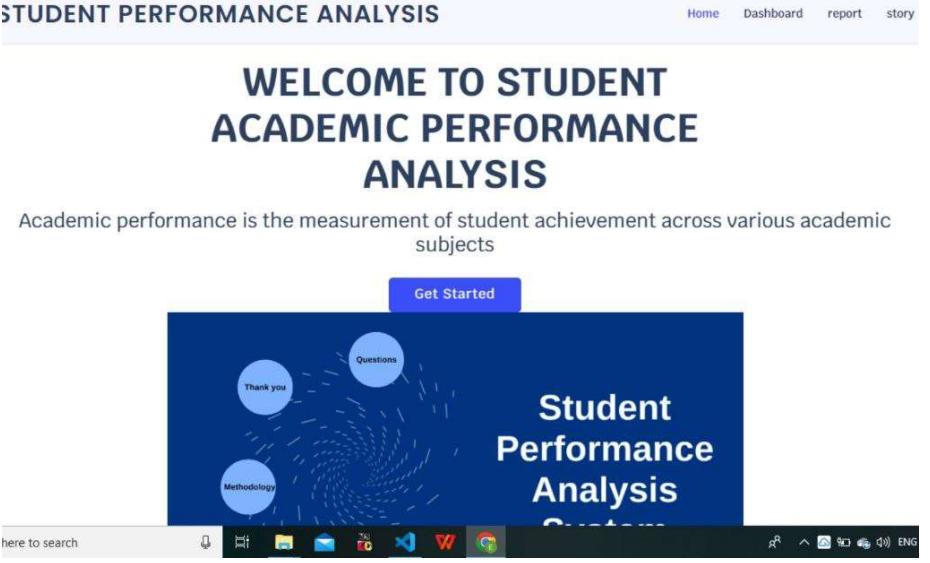
Performance Test

Date	18 May 2023
Team ID	NM2023TMID01158
Project Name	Unleashing the Potential of Youth: A student Performance analysis.

Performance Testing:

Start by clearly defining the performance goals of the program. What are the expected outcomes? What metrics will you use to measure success? For example, you might measure academic performance, leadership skills, personal development, or career readiness. Once you have defined the goals, identify specific KPIs that will help you measure progress towards those goals. These could include metrics like graduation rates, GPA improvements, participation in extracurricular activities, feedback from teachers and mentors, or post-graduation employment rates. Remember, performance analysis should be an ongoing process that allows for adjustments and improvements based on the data collected. Regularly reassess the program's effectiveness to ensure it remains aligned with its goals and continues to unleash the potential of youth. Finally, communicate the findings of the performance analysis to stakeholders, such as program coordinators, educators, parents, and students. Share the successes, challenges, and recommendations for improvement to ensure transparency and facilitate collaboration.

The execution time and the corresponding outputs are tabulated below.

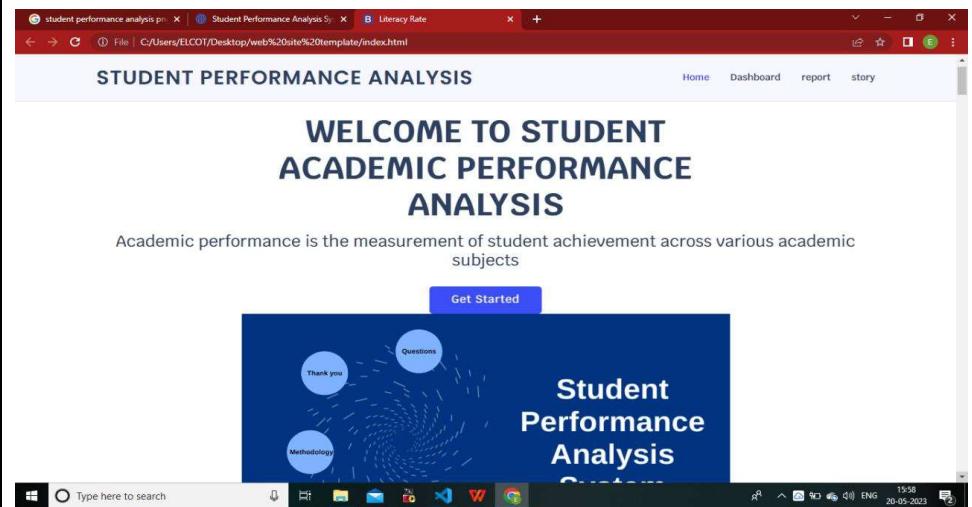
Parameters	Values	Screenshots
Metrics	Performance analysis Execution time	<p>The Execution time of student performance analysis is stimulator for our project.</p>  

Output screenshot

There are many steps involved in the output process. Here I attached screenshots for every steps below.

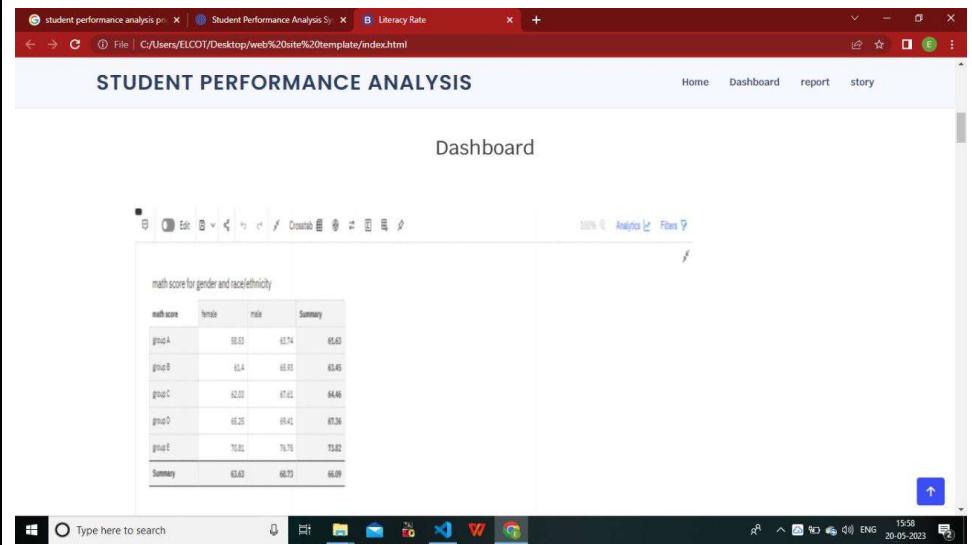
Step 1:

Turn ON the monitor



Step 2:

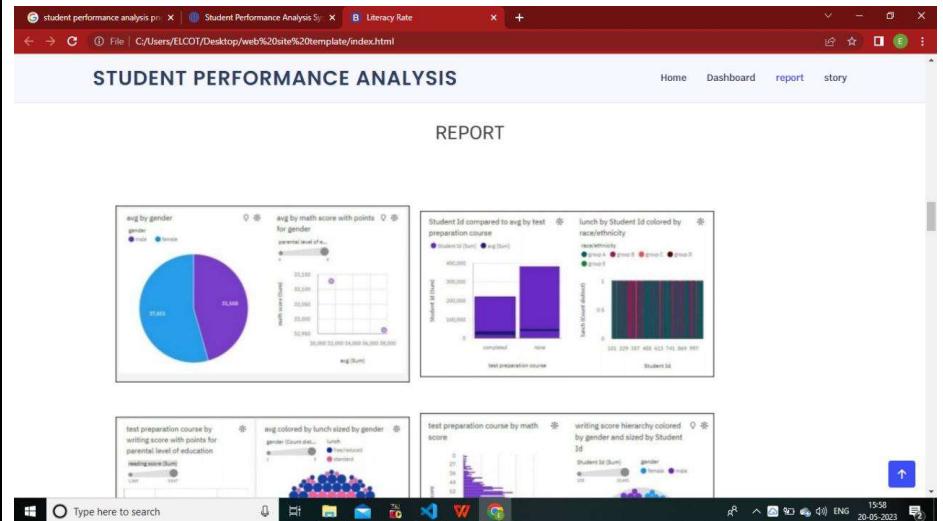
Then the students performance are analysed and starts dashboard



math score	female	male	Summary
groupA	65.00	65.74	65.62
groupB	61.4	65.03	63.46
groupC	62.00	67.01	64.46
groupD	65.25	69.02	67.36
groupE	70.00	76.75	73.82
Summary	63.62	68.73	66.99

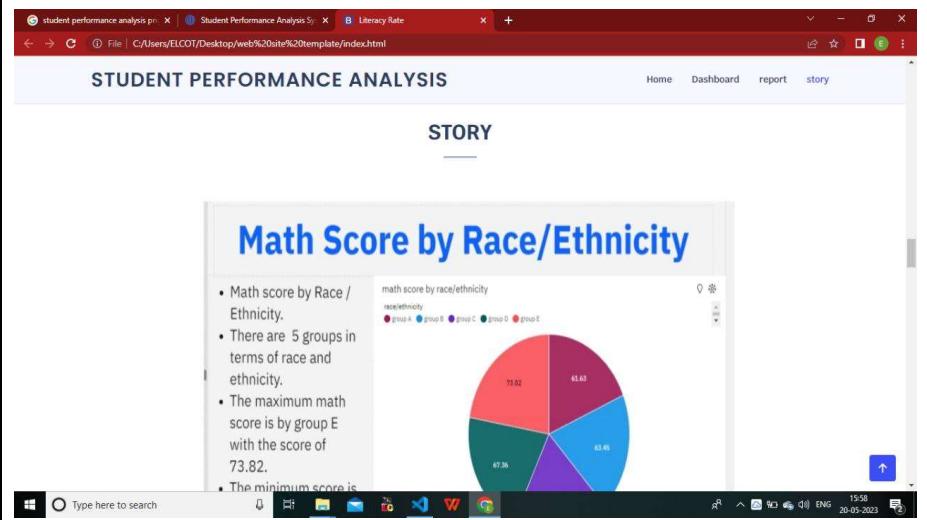
Step 3:

Then the report of the student performance are analysed



Step 4:

Then the story of the math score by race/ethnicity



These performance testing can be done by using the steps as follows.

- Identifying the Test Environment and tools
- Define acceptable Performance criteria
- Plan and Design Tests
- Prepare Test Environment and tools
- Run the Performance Tests
- Resolve and Retest

To make sure that the Performance testing is an iterative process, and it should be conducted at different stages of development and deployment to ensure consistent performance and reliability of the smart billing system for water suppliers.

Advantages:

- **Creativity and Innovation:** Youth often bring fresh perspectives and innovative ideas to the table. By empowering them, we allow their creativity to flourish, leading to new solutions, approaches, and insights. This can greatly benefit their academic performance by encouraging critical thinking and problem-solving skills.
- **Motivation and Engagement:** When young individuals are given opportunities to explore their interests and passions, they become more motivated and engaged in their studies. By unleashing their potential, we tap into their intrinsic motivation, leading to increased effort and dedication. This can significantly enhance their overall academic performance.
- **Skill Development:** Nurturing the potential of youth helps in developing a wide range of skills. Whether it's communication, teamwork, leadership, or technological proficiency, empowering young individuals allows them to acquire and refine these skills early on. This not only contributes to their academic success but also prepares them for future professional endeavors.
- **Confidence and Self-Esteem:** Encouraging youth to explore their abilities and take on challenges boosts their self-confidence and self-esteem. When students believe in their own capabilities, they are

more likely to excel academically. Unleashing their potential helps build resilience, adaptability, and a positive mindset, which are vital for success in various aspects of life.

- **Personal Growth and Identity Formation:** Youth is a critical period for personal growth and identity formation. By unleashing their potential, we allow them to discover their strengths, interests, and values. This process of self-discovery not only enhances their academic performance but also helps them make informed decisions about their future educational and career paths.

Disadvantages:

- **Increased Pressure and Stress:** Unleashing the potential of youth may lead to increased pressure and stress on students. When high expectations are placed on them to perform at their best, it can create a highly competitive environment that may be overwhelming for some students. This pressure can negatively impact their mental health and well-being, potentially affecting their academic performance.
- **Lack of Balance:** Focusing solely on unleashing the potential of youth may lead to an imbalance in their lives. If students are excessively pushed to excel academically, other aspects of their development, such as social interactions, hobbies, and physical health, may be neglected. This imbalance can hinder their overall growth and well-roundedness.
- **Unrealistic Expectations:** Unleashing the potential of youth can sometimes lead to unrealistic expectations from both parents and educators. Not all students may possess the same abilities or talents, and expecting every student to excel in the same way can create a sense of inadequacy for those who may not meet these expectations. This can have a detrimental effect on their self-esteem and motivation.
- **Limited Exploration:** An intense focus on unleashing potential may limit students' opportunities to explore different interests and passions. If students are primarily encouraged to excel in specific areas, they may miss out on exploring other subjects or activities that could potentially ignite their curiosity and lead to alternative pathways for success.

Conclusion

In conclusion, the analysis of student performance highlights the significant potential that youth possess and the importance of unleashing that potential. By examining various aspects of student performance, we can identify areas of strength and areas that require improvement, ultimately providing opportunities for growth and development.

The analysis has revealed that students have unique talents, skills, and capabilities that can contribute to their personal and academic success. It is crucial to recognize and nurture these strengths, as they form the foundation for unleashing their full potential. By creating an environment that encourages exploration, creativity, and critical thinking, educators and institutions can empower students to excel in their chosen fields.

In conclusion, unleashing the potential of youth requires a comprehensive understanding of their unique abilities, tailored support for their challenges, and a collaborative effort from all stakeholders. By investing in their growth and development, we pave the way for a brighter future, where the young generation can thrive and contribute meaningfully to society.

Future scope

1. Personalized Learning: Moving forward, personalized learning approaches can be implemented to cater to the unique needs and strengths of each student. By leveraging technology, data analytics, and adaptive learning platforms, educators can create individualized learning pathways that promote student engagement and maximize their potential.
2. Skill Development for the Future: As the job market evolves rapidly, it is crucial to equip students with the skills and competencies required for the future. This includes a focus on critical thinking, problem-solving, creativity, digital literacy, entrepreneurship, and emotional intelligence. Integrating these skills into the curriculum and providing opportunities for practical application will better prepare students for the challenges they will face in their careers.
3. Mental Health and Well-being: Recognizing the impact of mental health on student performance, there is a growing need to prioritize mental health and well-being in educational settings. Implementing comprehensive mental health programs, promoting

mindfulness practices, and offering counseling services can support students' overall well-being, leading to improved academic outcomes and personal growth.

4. Bridging the Equity Gap: Addressing the equity gap in education should remain a priority. Efforts must be made to ensure that all students, regardless of their socio-economic background, race, gender, or disabilities, have equal access to quality education, resources, and opportunities. This includes implementing inclusive policies, providing targeted support for marginalized groups, and creating a diverse and inclusive learning environment.
5. Collaboration and Partnerships: Collaboration among various stakeholders, including educators, parents, policymakers, and the community, is crucial for unleashing the potential of youth. By fostering strong partnerships, sharing best practices, and engaging in continuous dialogue, we can create a comprehensive support system that nurtures student growth and development.
6. Research and Data Analysis: Continued research and data analysis in the field of student performance can provide further insights into effective teaching and learning strategies. By studying trends, identifying patterns, and measuring the impact of interventions, educators and policymakers can make informed decisions to optimize student outcomes and ensure continuous improvement.
7. Harnessing Technology: Technology has the potential to revolutionize education and unlock new possibilities for student performance analysis. Exploring emerging technologies such as artificial intelligence, virtual reality, and augmented reality can enhance teaching methodologies, engage students in interactive learning experiences, and provide real-time feedback to improve performance.

In conclusion, the future scope of unleashing the potential of youth through student performance analysis is vast and dynamic. By focusing on personalized learning, future-ready skills, mental health, equity, collaboration, research, and technology integration, we can create an educational landscape that empowers every student to thrive and become successful contributors to society.