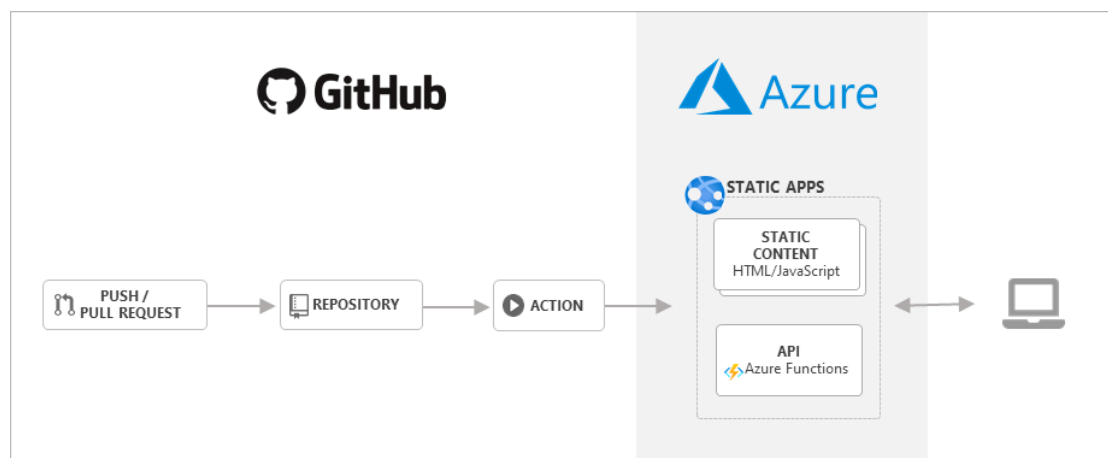


By using JavaScript – Deployed Ed-Tech Website with Microsoft Azure Services: Azure Web Apps, Static Web Apps

Problem Statement

In COVID-19 crisis, all over world was affected by mental health issues, job losses, financial issues and the growth of the economy has slowed down due to shutdown of different production channels. The major problem is the people have no work and they are unemployed. So this Ed-Tech Web Application platform for learners with an opportunity to learn the in-demand technology skills and work, courses for free so they will read and learn them. It solves the problem of unemployment because after learning the skills they open their own work and do something for them and others.

Solution:



So solution is to develop a system which can perform major role in Educational Sector by providing the in-demand technology skills, courses, other different types of resources, its freely accessible for everyone. By using Azure service I develop a portal where easily equip your teachers with tools, resources and professional development so that they can focus on studies.

its solves the problem and gives the new ideas of learning to think innovative, it's a responsive websites your Windows 10 PC can do that job.

Lets Look into Technical details and implementation of Solution

You need following software/Azure Account, please find the details below

Azure Account :- To get the Azure account by clicking on the following link

<https://azure.microsoft.com/en-us/free/>

There is free credit for students and 200 usd credit if you want to get started to Azure

<https://azure.microsoft.com/en-us/free/students/>

Visual Studio 2019 Community

<https://visualstudio.microsoft.com/downloads/>

Community edition is free for student and open source contributor for non commercial use.

Visual Studio Code(Optional)

<https://code.visualstudio.com/download>

Microsoft Azure services for Visual Studio:- Please install Azure service, if you have already installed and missing azure service please use Modify option in visual studio, please check the required part of installation

Ed-Tech has project as below

Azure Services

If you not aware what is azure service is all about then visit link below from Microsoft Azure and Docs

<https://azure.microsoft.com/en-in/services/functions/>

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-overview>

Itstats as below

"Develop more efficiently with Resource Group, a container holds related resources for an Azure solution. The resource group can include all resources for solution, only those resources that you want to manage as a group and it gives free storage space also.

And App Service Static Web Apps is a streamlined, highly efficient solution to take your static app from source code to global high availability. Pre-rendered content is distributed globally with no web servers required that can solve problems.

Build and debug locally without additional setup, deploy and operate at scale in Azure cloud and integrate services using triggers and bindings."

Start visual studio code, New Project then code it after that setup a Azure cloud to integrate the code.

Go to Create resources then choose Web app to create a website and fill details like your subscription, create new resource group name, runtime stack, storage and when you filled all details just click Review+create button.

Azure Web Apps is a cloud computing based platform for hosting websites, created and operated by Microsoft. It is a platform as a service (PaaS) which allows publishing Web apps running on multiple frameworks and different languages.

Microsoft Azure Search resources, services, and docs (G+)

Home > App Services >

Create Web App

Basics Deployment Networking Monitoring Tags Review + create

App Service Web Apps lets you quickly build, deploy, and scale enterprise-grade web, mobile, and API apps running on any platform. Meet rigorous performance, scalability, security and compliance requirements while using a fully managed platform to perform infrastructure maintenance. [Learn more](#)

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

Resource Group * [Create new](#)

Instance Details

Need a database? Try the new Web + Database experience.

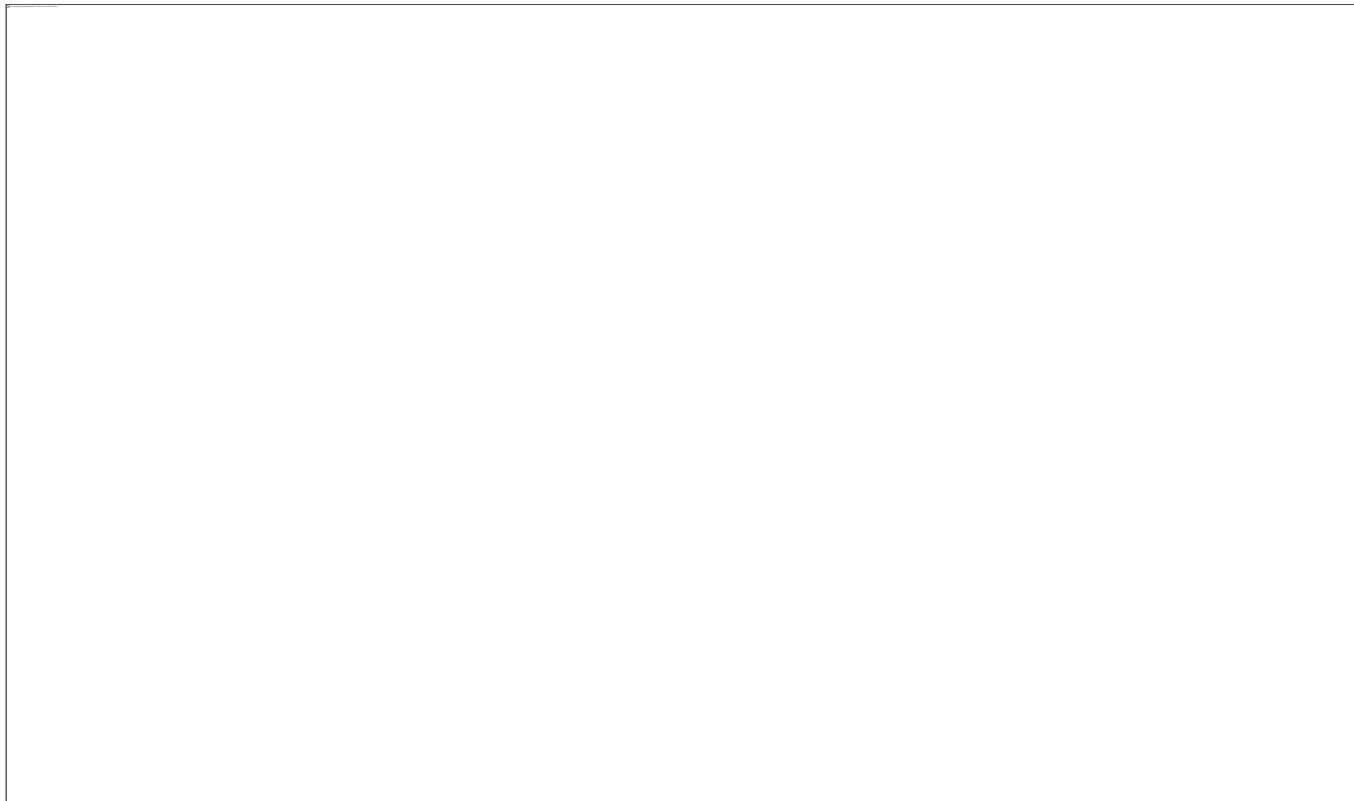
Name * .azurewebsites.net

Publish * Code Docker Container Static Web App

Runtime stack *

[Review + create](#) [< Previous](#) [Next : Deployment >](#)

Now, Resource group is created and you can see overview by clicking on the resource group name.



Create a resource group

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Project details

Subscription * ⓘ (Disabled) Azure for Students

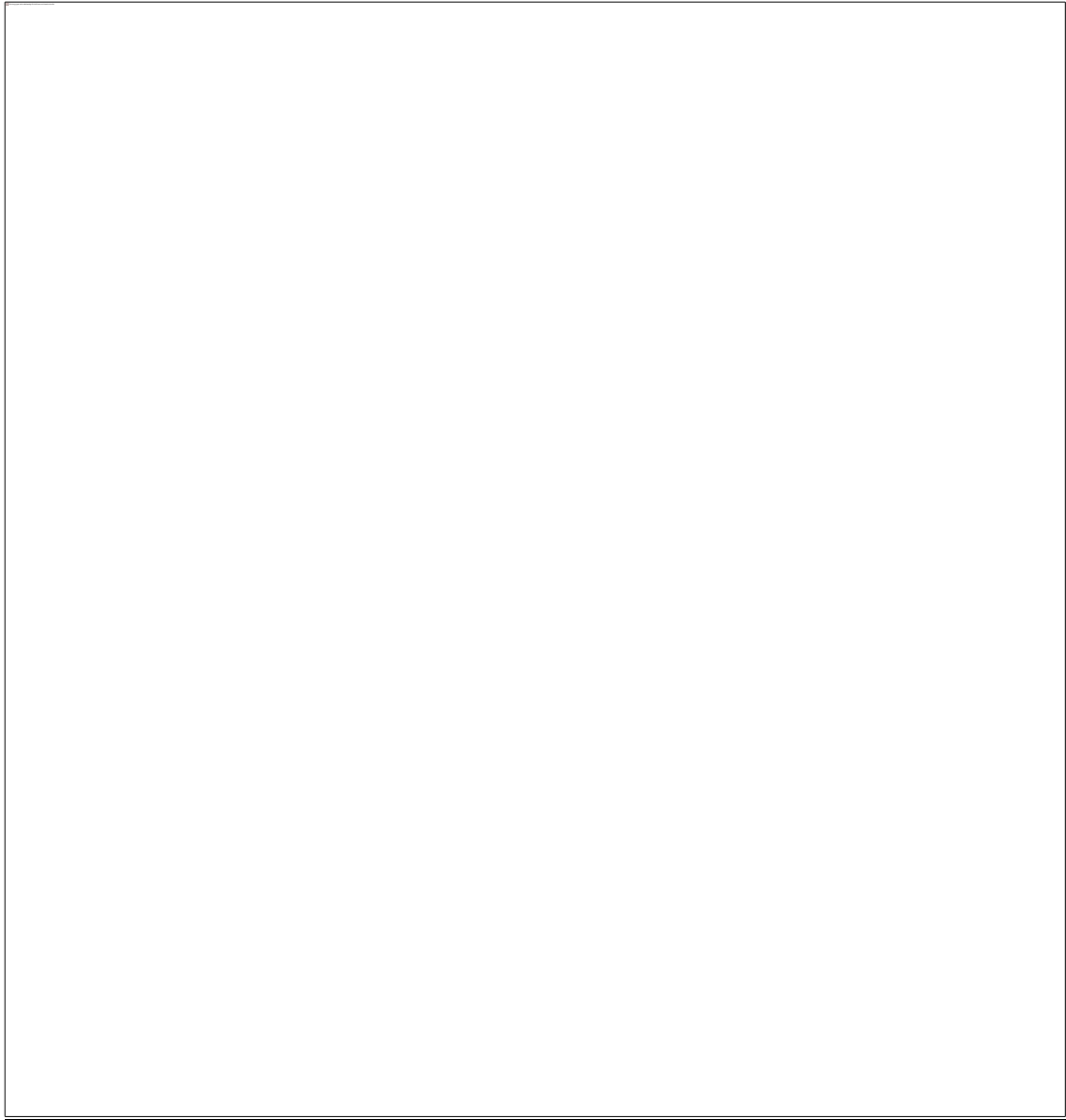
Resource group * ⓘ Ed-tec

Resource details

Region * ⓘ (US) East US

Review + create < Previous Next : Tags >

Check the basic information



Create a Static Web App then click on the create resources and deploy it by adding your code through the GitHub account.

Microsoft Azure Search resources, services, and docs (G+)

Home > Create a resource > Marketplace >

Create Static Web App ...

Basics Tags Review + create

App Service Static Web Apps is a streamlined, highly efficient solution to take your static app from source code to global high availability. Pre-rendered content is distributed globally with no web servers required. [Learn more](#)

Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ (Disabled) Azure for Students

Resource Group * ⓘ Ed-Tech [Create new](#)

Static Web App details

Name * tech ✓

Hosting plan

The hosting plan dictates your bandwidth, custom domain, storage, and other available features. [Compare plans](#)

Plan type

Free: For hobby or personal projects

Standard: For general purpose production apps

[Review + create](#) < Previous Next : Tags >

Go to the Overview by clicking on resource group name, you can see the deployments in your essentials after that in your App Service Essentials. Here, URL of your created of your azure website, now connect your code through GitHub account by following such steps:-

Open Project Settings>GitHub Connections.

Sign into Azure Boards for project you want to connect to GitHub repositories. Choose (1) Project Settings> (2) GitHub connections. If it's the first time making a connection from the project, choose Connect your GitHub account to use GitHub account credentials.

Here I attach my (.html) files.

Default function I will be created replace it with below code:

index.html

```

<!------- Website for Educational purpose by Meenakshi sainsi ----->
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Ed-Tech</title>

<!------- IMPORTING THE ICONSCOUNT CDN ----->
<link rel="stylesheet" href="https://unicons.iconscout.com/release/v4.0.0/css/line.css">

<!------- IMPORTING THE GOOGLE FONT ----->
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link href="https://fonts.googleapis.com/css2?family=Montserrat:wght@300;400;500;600;700;800;900&display=swap" rel="stylesheet">

<!------- IMPORTING SWIPER JS LIBRARY ----->
<link rel="stylesheet" href="https://unpkg.com/swiper@8/swiper-bundle.min.css"/>

```

```

<!------- LINKING CSS FILES ----->
<link rel="stylesheet" type="text/css" href="/CSS/index.css">

<!------- WEBSITE FAVICON ----->
<link rel="icon" type="image/x-icon" href="img/favicon.ico">

</head>

<!------- BODY SECTION ----->
<body>

<!------- NAVIGATION BAR ----->
<nav>
<div class="container nav__container">
<a href="index.html"><h3> Ed-Tech </h3></a>
<ul class="nav__menu">
<li><a href="index.html">Home</a></li>
<li><a href="about.html">>About Us</a></li>
<li><a href="event.html">Course</a></li>
<li><a href="team.html">Learning Path</a></li>
<li><a href="contact.html">Contact Us</a></li>
<li><a href="login.html">Sign Out</a></li>
</ul>
<button id="open-menu-btn"><i class="uil uil-bars"></i></button>
<button id="close-menu-btn"><i class="uil uil-multiplies"></i></button>
</div>
</nav>
<!------- END OF NAVIGATION BAR ----->

<!------- HEADER PART ----->
<header id="particles-js">
<div class="card">
<div class="header__container">
<div class="header__left">
<h1>Education</h1>
<p> has an important role to play in making INDIA self-reliant.</p>
<h3>- Narendra Modi</h3>
</div>

<div class="header__right">
<div class="box-container">
<div class="box-item">
<div class="flip-box">
<div class="flip-box-front text-center" style="background-image: url('img/index-front.jpg');">
<div class="inner color-white">
<h3 class="flip-box-header"></h3>

</div>
</div>

<div class="flip-box-back text-center" style="background-image: url('img/index-back.jpg');">
<div class="inner color-white">
</div>
</div>
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</div>
</div>
</div>
</div>
<!------- END OF HEADER PART ----->

<!------- ABOUT SECTION ----->
<section class="aboutall">
<div class="container aboutall__container">
<div class="aboutall__left">
<h1> Who we are? </h1>
<p> Ed-Tech is the official tech website. This website help make the process of learning entertaining and attractive to the student, especially in today's age.

```

This website support different educational sectors by providing access to relevant information and tools to each group served.

Instructors can find valuable educational resources to develop their teaching, and by using this portal, they enhance student-centered learning. </p>

Learn more
</div>

<div class="aboutall__right">
<article class="about">
<i class="uil uil-icons"></i>
<h5> Hard Skills</h5>
<p>Science, Art, Commerce...</p>
</article>

<article class="about">
<i class="uil uil-icons"></i>
<h5> Soft Skills </h5>
<p>Communication, Personal Development...</p>
</article>

<article class="about">
<i class="uil uil-notebooks"></i>
<h5> General Knowledge </h5>
<p>Encyclopedia, Current Affairs...</p>
</article>

<article class="about">
<i class="uil uil-box"></i>
<h5> Daily Life Skills </h5>
<p>Fitter, Plumber, Electronics...</p>
</article>

<article class="about">
<i class="uil uil-music"></i>
<h5> Curriculum Activites </h5>
<p>Sports, Music, Dance...</p>
</article>

<article class="about">
<i class="uil uil-newspaper"></i>
<h5> Resource Library </h5>
<p>PDFs, Books, Articles, Blogs, Podcast...</p>
</article>

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

<!----- END OF ABOUT SECTION ----->

<!----- OTHER SECTION ----->

<section class="events">
<h2>Equip your school with tools for success</h2>
<div class="container events__container">

<article class="event">
<div class="event__image">

</div>
<div class="event__info">
<h3> Education Leaders </h3>
<p>

</p>
<h4> Bring flexible innovation to your school at scale </h4>
<p> Spend less time on administrative tasks and more time making an impact on student education. Equip your teachers with tools, resources and professional development so that they can focus on their students.</p>
Learn More
</div>
</article>

<article class="event">
<div class="event__image">


```


</div>

<div class="event__info">
<h3> IT Admins </h3>
<p>

</p>
<h4> Easily deploy educational tools across your institution</h4>
<p> Get diverse tools in the hands of students and educators with minimal effort. Maintain all of your institution's tech from one place. Monitor info-sec, control access and quickly make changes across your network using the centralised Admin console.</p>
<a href="event.html" class="btn btn-primary">Learn More</a>
</div>
</article>

<article class="event">
<div class="event__image">

</div>

<div class="event__info">
<h3> Educators </h3>
<p>

</p>
<h4> Save time and enrich student learning with easy-to-use tools </h4>
<p> Streamline class management while providing every student with individualised learning experiences. Create, customise and collaborate on lessons to help learners grow their skills. Use virtual classrooms to promote learning any time, anywhere. Keep meetings, documents and reports all within reach. </p>
<a href="event.html" class="btn btn-primary">Learn More</a>
</div>
</article>
</div>
</section>
<!------- END OF SECTION ----->

<!------- FOOTER SECTION ----->
<footer>
<div class="container footer__container">
<div class="footer__1">
<a href="index.html" class="footer__logo"><h4> Ed-Tech</h4></a>
<p> Ed-Tech (Educational technology) is the combined use of computer hardware, software, and educational theory and practice to facilitate learning.
When referred to with its abbreviation, ed-tech, it is often referring to the industry of companies that create educational technology. </p>
</div>

<div class="footer__2">
<h4> Permalinks</h4>
<ul class="permalinks">
<li><a href ="index.html">Home</a></li>
<li><a href ="about.html">About Us</a></li>
<li><a href ="event.html">Course</a></li>
<li><a href ="team.html">Learning Path</a></li>
<li><a href ="contact.html">Contact Us</a></li>
<li><a href ="login.html">Sign Out</a></li>
</ul>
</div>

<div class="footer__3">
<h4>Important Links</h4>
<ul class="links">
<li><a href="#">Ed-Tech</a></li>
<li><a href="https://educationtechnology.com/">Education Technology</a></li>
</ul>
</div>

<div class="footer__4">
<h4>Follow Us</h4>

```

```
<div>
<p>+91 999999XXXX</p>
<p>support@educationtechnology.in</p>
<ul class="footer__socials">
<li><a href="https://www.facebook.com/meenu.saini.00"><i class="uil uil-facebook-f"></i></a></li>
<li><a href="https://www.instagram.com/_meeta_98/"><i class="uil uil-instagram-alt"></i></a></li>
<li><a href="https://twitter.com/Meenaks00882522"><i class="uil uil-twitter"></i></a></li>
<li><a href="https://github.com/Meeta-motherfds"><i class="uil uil-github"></i></a></li>
<li><a href="https://www.linkedin.com/in/meenakshi-meeta-saini-a249aa197/"><i class="uil
uil-linkedin-alt"></i></a></li>
</ul>
</div>
</div>
</div>

<div class="footer__copyright">
<p> Copyright &copy; Ed-Tech |</i> By <a
href="https://www.linkedin.com/in/meenakshi-meeta-saini-a249aa197/"><strong>Meenakshi Saini
(Meeta)</strong></a></p>
</div>
</footer>
<!------- END OF FOOTER SECTION ----->
```

Working website is available on GitHub via my public repository, you just need to set correct connection string values, please find it below, please find zip file (issue with commit so added zip file) and extract all code

<https://github.com/Meeta-motherfds/tech/>

Business benefits:

- Saves your company money.
- Reduces learning time for your employees.
- Better employee retention for most training topics.
- Just-in-time accessibility for worldwide employees.
- Provides employees with ongoing access to key resources.

Challenges:

I'm facing an **issue** while **deploying** the **azure** function while deploying it fails many times and sometimes azure services cannot connect the GitHub code its shows the error while building and deploy the code on Azure. But common issues in the resource group where we see the possible error messages. I can make a 2 resource group for this.

Please look at below snap of Ed-Tech application running.


Outputs:

Home page of the website:

Ed-Tech x +
https://ed-tech.azurewebsites.net

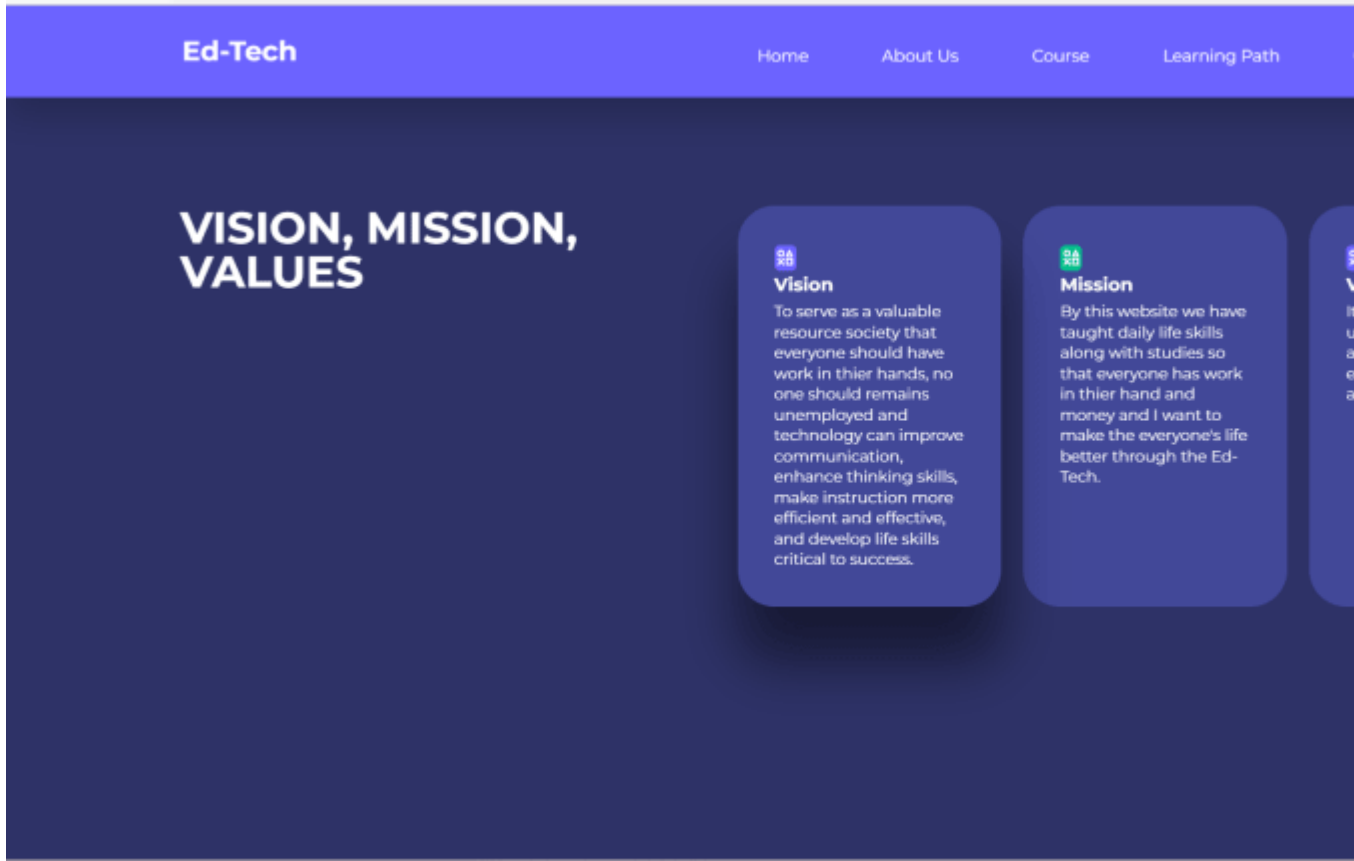
Ed-Tech Home About Us Course Learning Path

Education
has an important role to play in
making INDIA self-reliant.
- Narendra Modi

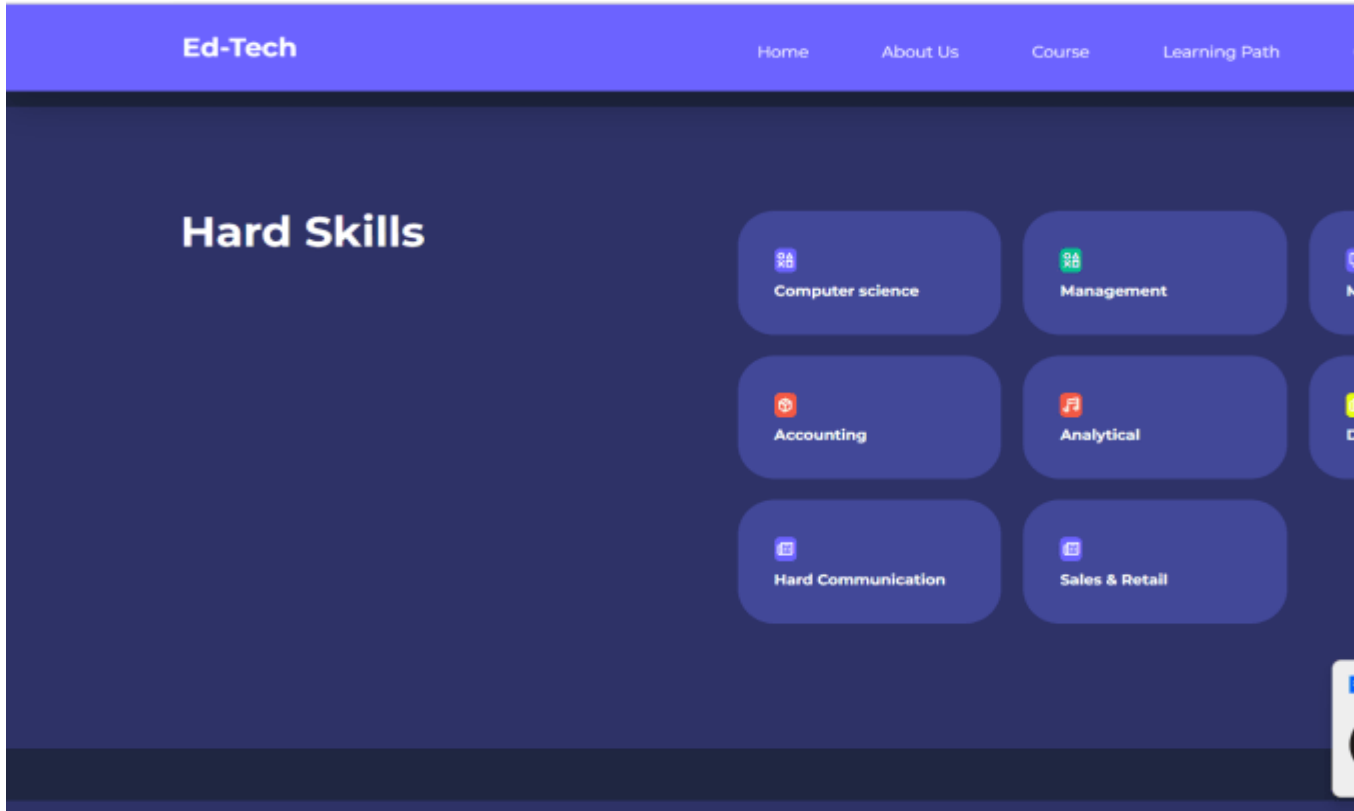


31°C Haze

Windows taskbar icons: Start, Search, Task View, Edge, Mail (14), Calendar, File Explorer, Microsoft Store, Settings, Security, Firefox, Teams, Word, PowerPoint, Outlook.



Courses:



Thank You

Meenakshi Saini