PROJECT WORK - II



Medi-Caps University, Indore
Department of Computer Science & Engineering

Project Title: Options Technika (Website Development)

Internship Provided by: IBM - ICE

GUIDED BY:
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PRESENTED BY:

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About IBM

The International Business Machines corporation (IBM) is an american multinational information technology company headquartered in armong, New York, with operations in over 170 countries. IBM produces and sells computer hardware, middleware and software, and provides hosting and consulting services in areas ranging from mainframe computers to nanotechnology.

The **IBM Innovation Center for Education** co-creates technology- and business-based undergraduate and graduate degrees in collaboration with leading universities and engineering colleges around the globe. By working with educators and other tech industry leaders, we prepare students to excel in the latest technology industry developments, including: Al, Blockchain, Cybersecurity tools, Cloud and Hybrid Multiclouds.

Assigned Work/Projects

- PROJECTS ASSIGNED TO INDIVIDUAL:
 - DESKTOP APPLICATION DEVELOPMENT
 - GAME DEVELOPMENT

- PROJECT ASSIGNED TO THE TEAM:
 - WEBSITE DEVELOPMENT (OPTIONS TECHNIKA)

Technologies Used in Desktop Application Development-(Library Management System)

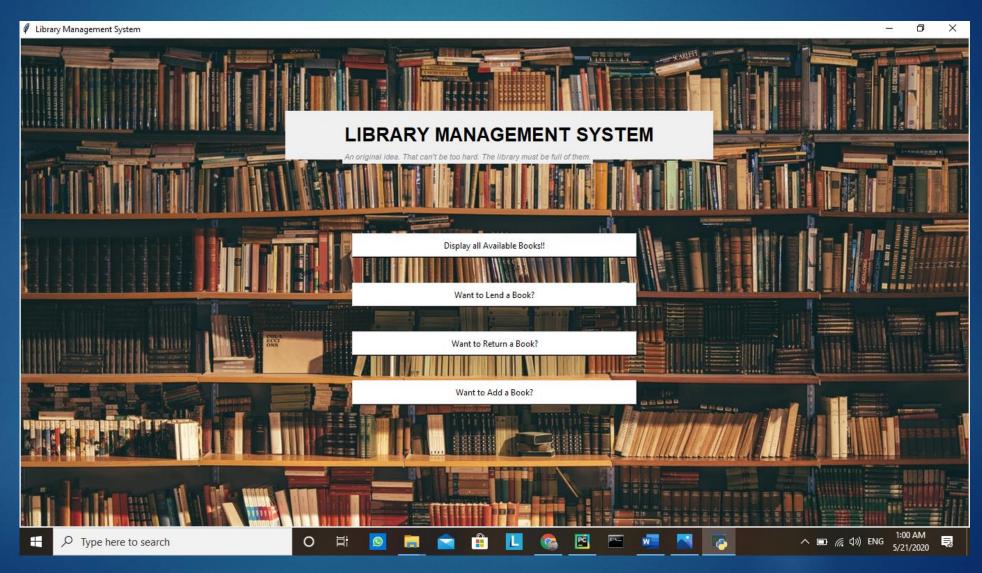
- Python (IDE- PyCharm)
- Tkinter (GUI Programming)
- MySQL (Database)

What is Tkinter?

- ► Tkinter is the Python interface to the Tk GUI toolkit shipped with Python.
- Geometry Management pack(), grid(), place() methods.
- Tkinter Widgets Button, Canvas, Checkbutton, Frame, Label, Listbox, Radiobutton, Text, Toplevel, etc.
- Standard attributes Dimensions, Colors, Fonts, etc.

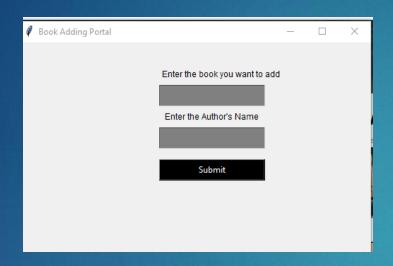
Library Management System

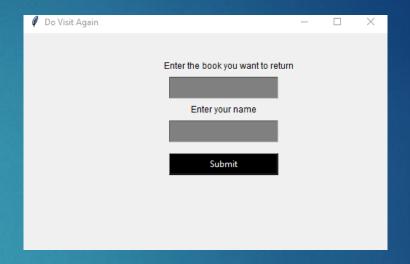
(Developed by Siddharth Bhawsar)

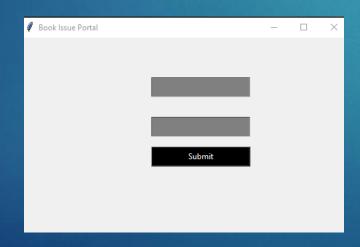


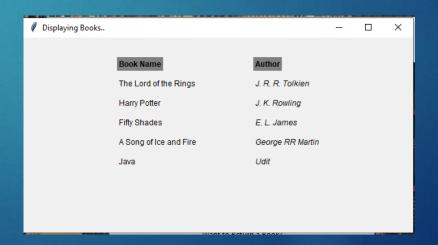
Library Management System

(Developed by Siddharth Bhawsar)







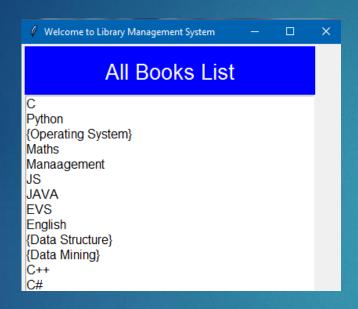


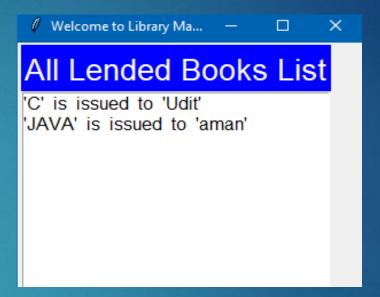
Library Management System (Developed by Udit Jain)

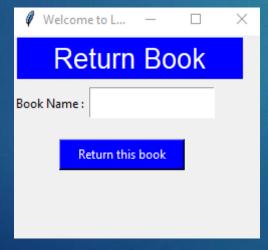


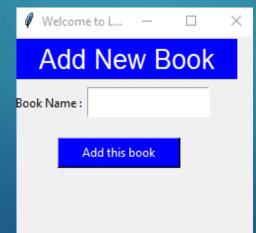
Library Management System

(Developed by Udit Jain)









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Issue this book										

Technologies Used in Game Development –

- Python (IDE- PyCharm)
- PyGame

What is PyGame?

- Pygame is a set of Python modules designed for writing video games.
- Pygame allows you to create fully featured games and multimedia programs in the python language.
- Pygame is highly portable and runs on nearly every platform and operating system.
- Pygame itself has been downloaded millions of times.
- Pygame is free. Released under the LGPL licence, you can create open source, freeware, shareware, and commercial games with it.
- It consists of computer graphics and sound libraries designed to be used with the Python programming language.

Dusk Drive Game Development

(Developed by Siddharth Bhawsar)



Simple Mario Game Development (Developed by Udit Jain)



Flappy Bird Game Development (Developed by Yash Jain)



Options Technika



IBM

The IBM co-creates technologyand business-based courses in collaboration with leading universities and engineering colleges around the globe.



Aptech Education

Aptech is a premier education institute since 1986. Aptech has trained 70 lakh professionals in more than 40 countries.



Aptech Aviation

Aptech Aviation is well-known institute that prepares students for successful careers in aviation, hospitality, travel & tourism, and the retail industry.



MAAC

At MAAC we let our students let loose their imagination and come up with something creative in their everyday learning.

Technologies Used in Website Development – (Options Technika)

- Python (IDE-PyCharm, Atom)
- Django
- ► HTML
- **CSS**
- Bootstrap
- **JS**
- MySQL

What is Django?

- Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design.
- Ridiculously fast Django was designed to help developers take applications from concept to completion as quickly as possible.
- Reassuringly secure Django takes security seriously and helps developers avoid many common security mistakes.
- Exceedingly scalable Some of the busiest sites on the Web leverage Django's ability to quickly and flexibly scale.
- It's free and open source.

IBM Website Development LLD

Objectives:

The major aim of our organization is to ensure that the use of technology enhances the effective operations of the school of education. We will partner with faculty, students, and staff, both within, as well as, outside the firm to make technology integrate seamlessly with the teaching, research, and support operations of the corporation. And the way to do this is to identify the major user types visiting your site, speak to their needs and give them a clear action step to take next.

Some other objectives of the website include:

1. <u>Getting more Sales</u>: This objective will be based on the type of website. This will help convert visitors into leads and then those leads into sales.

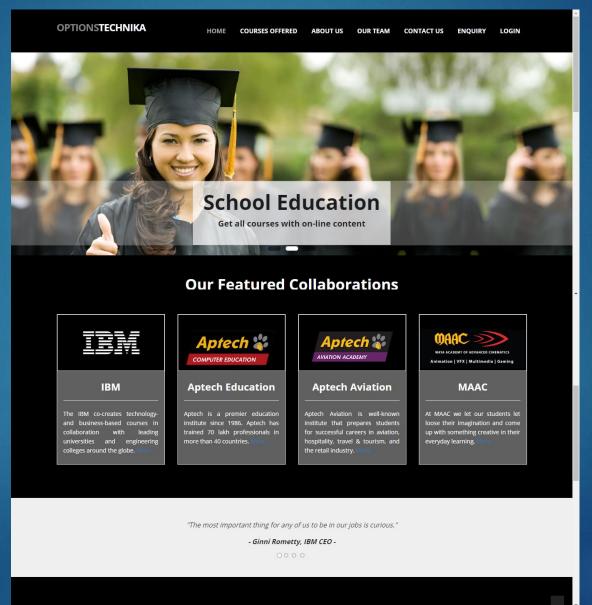
2. <u>Brand building</u>: Nowadays building a brand is a requirement for long-term as only then one can establish oneself in any industry. Building a brand also helps in acquiring new prospects and making existing ones loyal. This will help ensure that the visitors are having a good time on the website.

Website specific variable

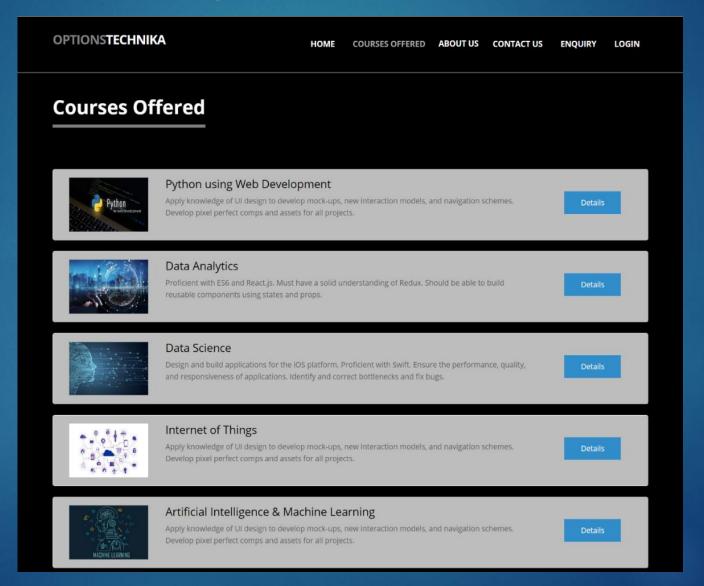
Following are the variables that are used in the project:

- Home: This tab will take the user to the home page and will be accessible throughout the website.
- About Us: Clicking on this tab, the user retrieves the page wherein he can
- Contact Us
- Log in
- Registration
- Student Portal
- Counsellor Portal
- Faculty Portal

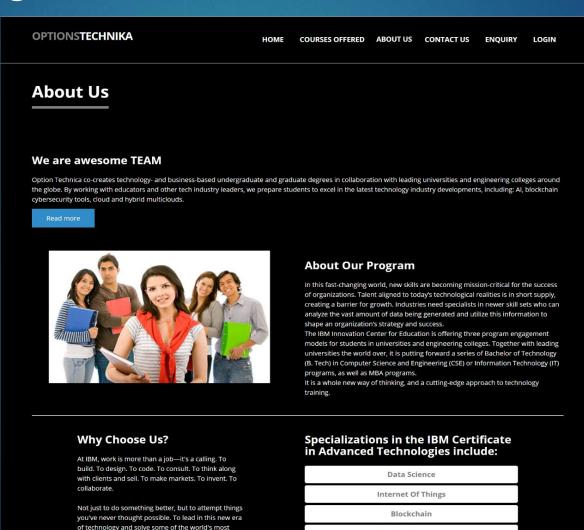
► Home Page - (Developed by Udit & Siddharth)



► Courses Offered Page — (Developed by Yash & Siddharth)



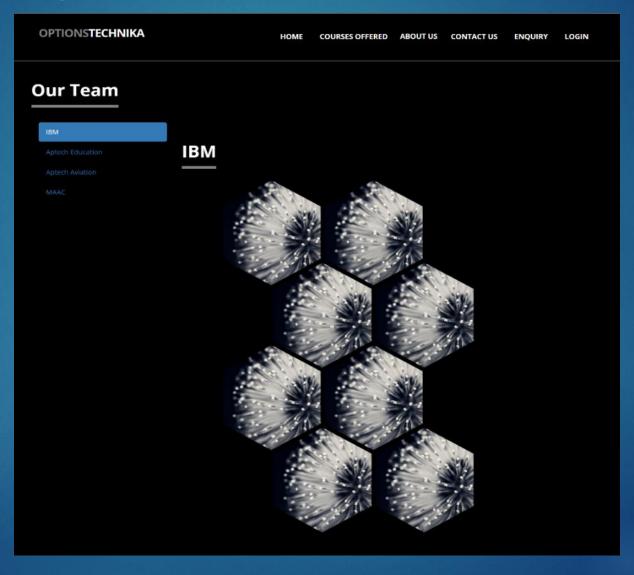
► About Us Page — (Developed by Yash)



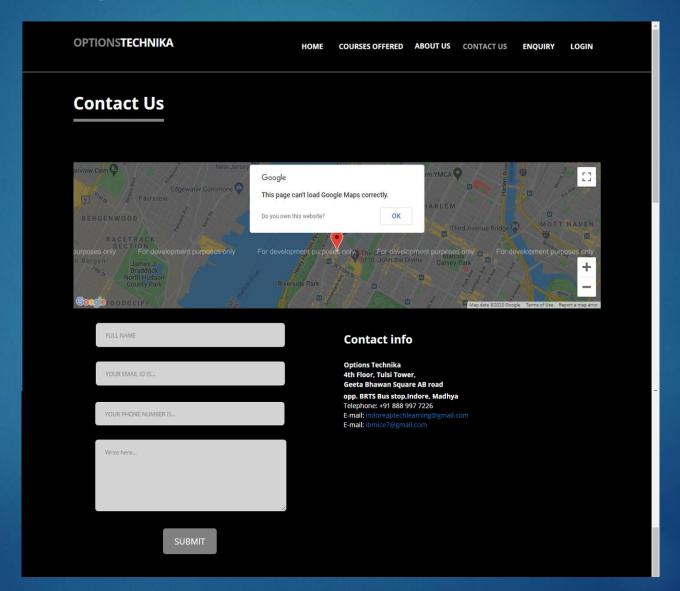
challenging problems. Let's put smart to work.

Machine Learning

Our Team Page – (Developed by Yash)



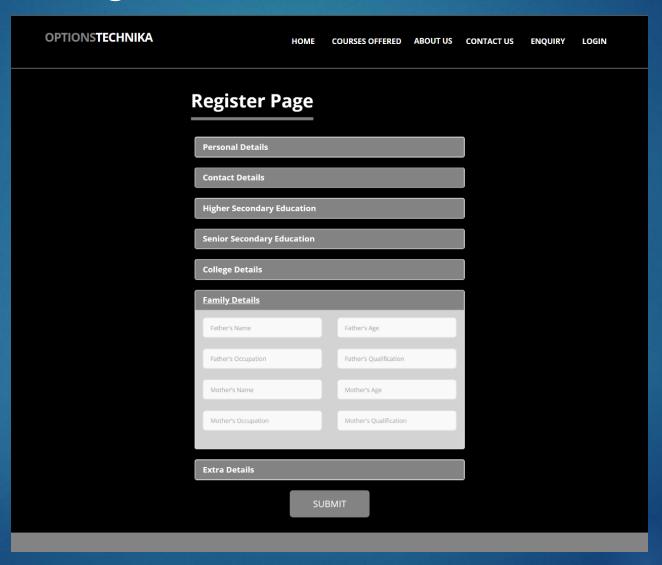
Contact Us Page - (Developed by Yash)



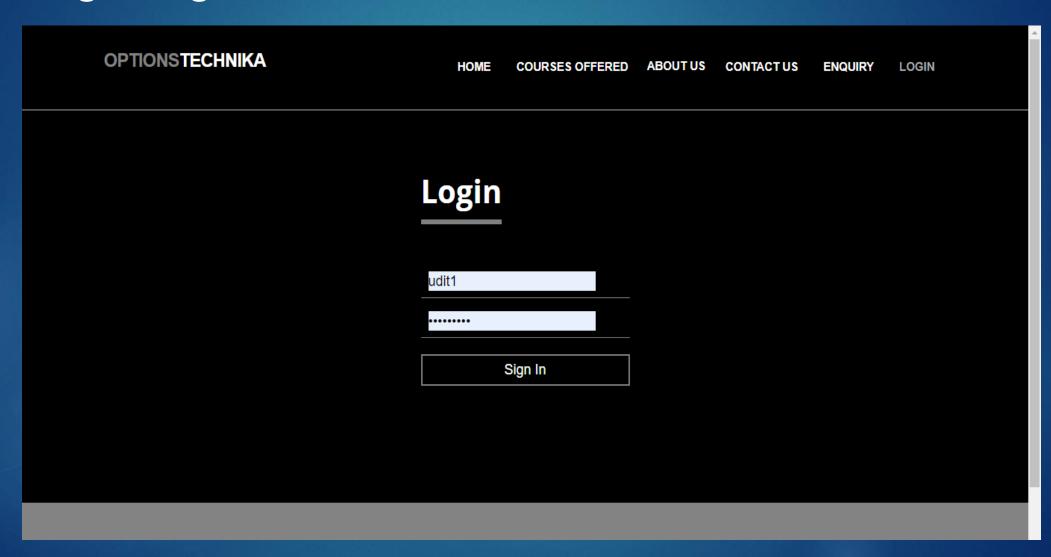
Enquiry Page - (Developed by Udit)

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Enquiry Page										
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Basic Details										
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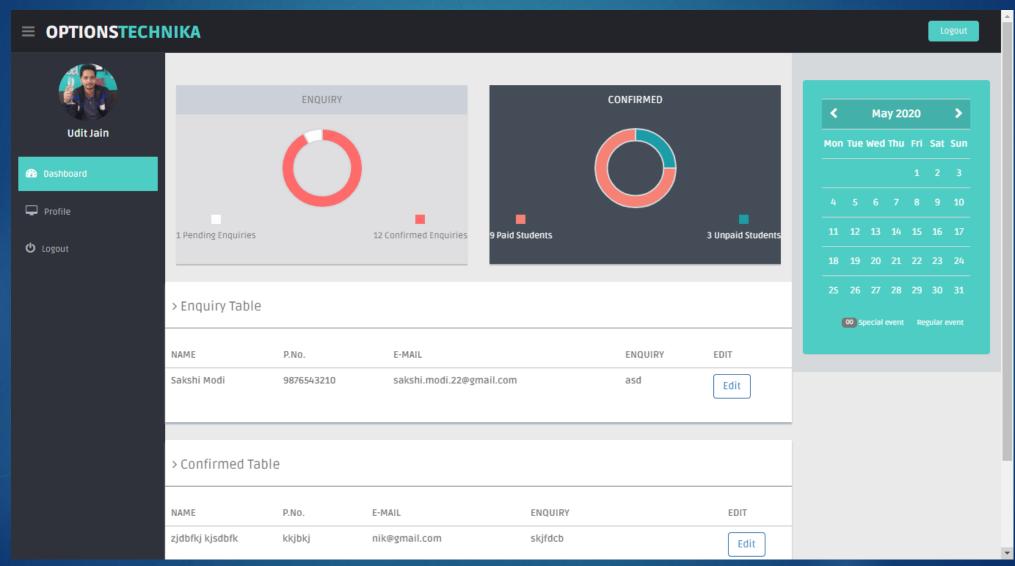
Registration Page - (Developed by Siddharth)



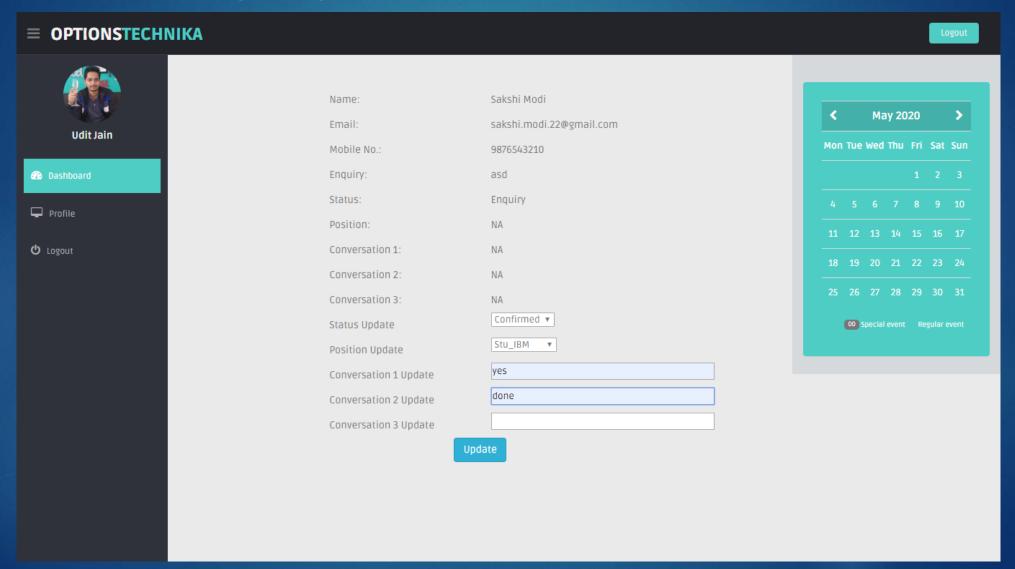
► Login Page — (Developed by Yash & Siddharth)



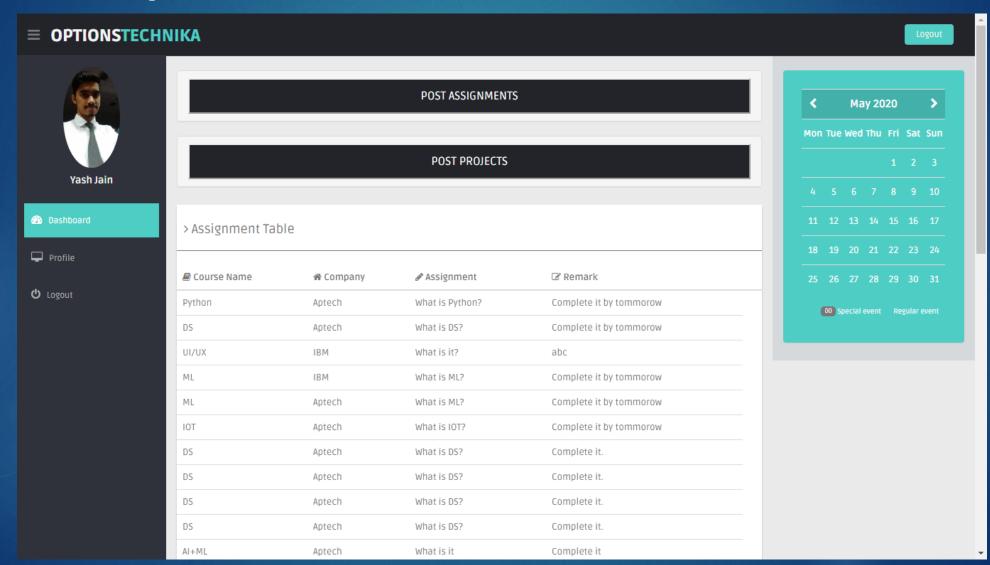
Counsellor Portal - (Developed by Udit)



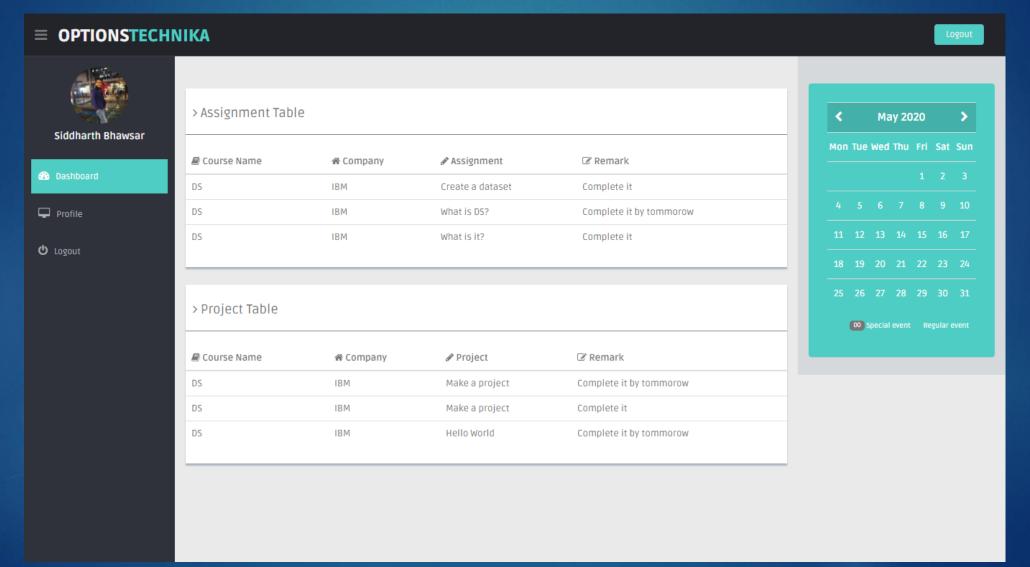
Counselling Page - (Developed by Udit)



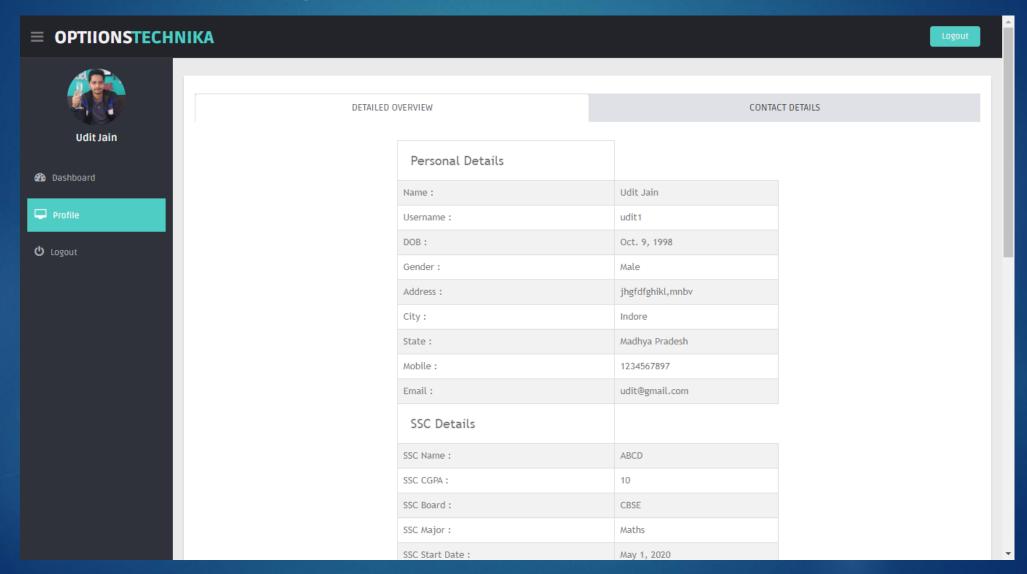
Faculty Portal - (Developed by Udit)



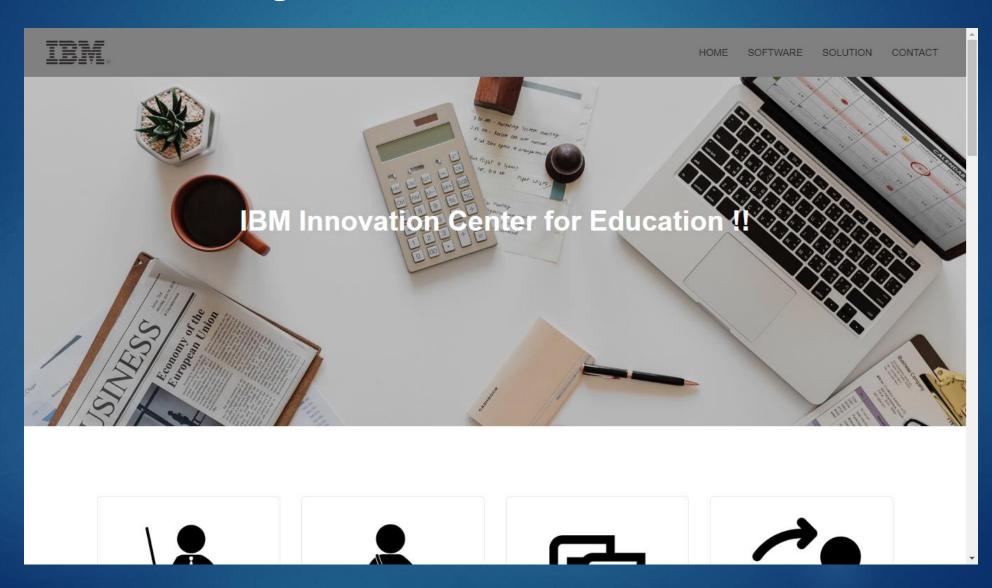
Student Portal - (Developed by Udit)



► User Profile Page - (Developed by Udit)



► IBM Home Page - (Developed by Udit)



► IBM Software Page - (Developed by Udit)

SOFTWARE



Software for IBM Z mainframes

IBM offers over 100 applications to make the IBM Z mainframe platform even more powerful. from analytics and security to data management and software development tools.



IBM Spectrum Computing

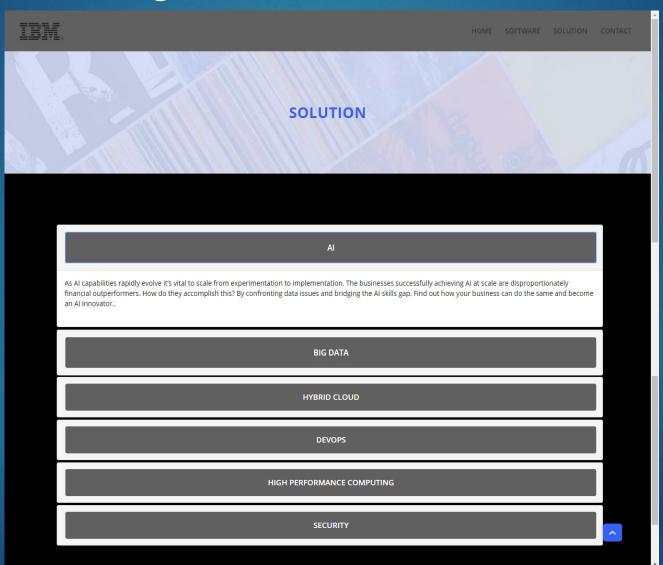
IBM Spectrum Computing accelerates and simplifies AI, data analytics, and HPC Maximize resource utilization and improve user experiences for faster time to results and better outcomes.



Software for IBM Power Systems servers

Augment the capabilities of IBM Power Systems servers with software for virtualization management, high availability and data recovery, and security and compliance.

► IBM Solution Page - (Developed by Udit)



Future Scope of Options Techika

- We can give more advance website for Options Technika including AI and ML.
- Any student can give the test and get the result on the website itself.
- A payment method can be added.
- An online video courses will be provided for online study purpose.
- Online chatting can also be provided among faculties and students.
- Online video calling and screen sharing option can also be provided as our generation is moving towards better communication tools for doubt clearing, learning, etc.
- Optimization for small screens, mobile viewing experience can be improved.
- An android application can also be released, so that user count can increase.
- Chat-bot can also be integrated in the website for better handling of enquiries and doubts about the courses. It will make the task much easier, and hence our website will be more effective.
- We can create a separate module for accounting department.

Thank You