

**Project Title**

**“Digital Learning System”**

**Project Description:**

In our country we need a strong online learning system where the best tutors of our country can teach recently one research suggests Pakistan is one of the best country to have the best professors learned from Oxford, Cambridge, Harvard, Stanford which are the best universities existing in the world. So these types of tutors need a platform in Pakistan in our language. We’ll provide a platform where our local languages can also have an important corner for learning. Saving Time for buying books from international market, we’ll try to provide famous books on our website as a premium section in the website. We will cover the courses/topics from the most demanded tutor. We want to provide the best quality education and HD video to the public. We’ll give more chances and create opportunities to the people already doing business of some kind or job to learn from our platform.

We will face a lot of challenges as we will paste card services for premium books to be bought and this is the new feature for us as we have never done it. We will try our best to avail more and more premium books at our website. We will try our best to avail more and more lectures and highly educated professors at our website. To enhance motivation in E-Learning platform we need to create an interactive environment that engages our audience by offering them the opportunity to explore. This way, we will boost our learners' curiosity and, then, their attention is ours to use this is our motivation to make an e-learning platform for the betterment of e-learning experiences. More and more businesses are now switching from the traditional courses to eLearning courses using an eLearning platform, also known as a learning management system.

**List of Team Members and their roles:**

* Aneela Hameed(41386)-Group Leader and will handle documentation, coding and manage all group members and distribute their task.
* Muhammad Tabish(42029)- Creates and manages the design of the application.
* Kashaf Ul Duja(54333)- Will handle coding, documentation work and research work.
* Umair Aqeel Ahmed(47424)- Will handle documents work, coding and testing phase.
* Jai Parkash(40519)- Handle backend programming.
* Rohit Kumar(39889)-Handle the testing phase of the application.
* Aashish Kumar(40616)- Handle the backend programming of the application.
* Muniba Waheed(54313)- Will handle documentation and designing.

**Planning/Schedule:**

* First we have to analysis then research the problem related to the projects.
* Decide which methodology is suitable for this project.
* We have to design the physical and logical design of the website which includes interface of the website and backend working.
* Development process, Data dictionary, Integration plan and results.
* Then we have to perform testing phase.
* After completing the testing phase we have to create proper documentation of the project and look through the documentation and correct the errors if occurs.
* Launch the website in to the market.

**Software Requirement :**

* The system should be secured and all the data must be confidential.
* Students must have their profile, whenever they open the website they have to log-in first.
* Digital learning platform will give student 24/7 access to do their study.
* Users should be able to customize as many things as possible. It starts with custom profile settings and ends with adjusting their learning speed, milestones, and goals. Employing AI-powered engines allows creating personalized course offers and learning recommendations. This aids with user engagement and retention.
* Social media integration is a crucial feature that serves two causes at once. When sharing your learning achievements and getting positive comments on them, you get a huge boost of confidence and motivation. It’s a powerful incentive to carry on. On the other hand, it’s a perfect way to inform your potential users about e-learning advantages that your solution offers. For these reasons, integration with the most popular social networks like Facebook, Instagram, Twitter, and LinkedIn should belong to your key features. It will definitely extend the list of the benefits of e-learning systems for your business.
* As the digital world develops, so does the cybercrime. Your solution should be equipped with a range of security features to make sure the sensitive user data is safe. All communications should be encrypted. Two-factor authentication should be added to secure the authentication process. To detect unauthorized user access, it’s important to gather data on when and from which device logins to the user account happened. Security issues should not put numerous benefits of e-learning systems at risk.

**Development Process:**

We use the prototype because it is a term used in a variety of contexts, including semantics, design, electronics, and software programming. A prototype is generally used to evaluate a new design to enhance precision by system analysts and users.

To understand how technology can enhance learning as one tool in a portfolio, we surveyed the education technology landscape for trends and promising approaches to developing 21st-century skills. Based on our research and interviews with dozens of players in the education field, we homed in on a number of resources, as well as school networks that place a heavy emphasis on technology, as representative examples of those trends. In this section, we focus exclusively on skill development in primary and secondary education. By the time students enter college and the labor market, deficiencies that have not been addressed earlier can be far more difficult and costly to remedy.

**Process Model:**

Student

Admin

Teacher

**Functional and Non – Functional Requirements:**

**Functional Requirements:**

* The application must provide user friendly UI in order to use it easily.
* The application must provide clear set of voice/text commands to understand easily (among the teacher and student).
* The application must allow all user to access its features.
* The application must keep record of the accessing data by the user.

**Non - Functional Requirements:**

* **Performance:**

1. The application must be responsive in terms of time.
2. The application must complete the given task within minimum time.
3. The application must use correct command each time.

* **Usability:**

1. The application must provide user friendly UI in order to understand without any guidelines and use easily. If a UI needs to be explain, it is not considered as a good UI.

* **Reliability:**

1. The application must be reliable and guide the way correctly.

* **Security:**

1. The application must be secured so that it will be protected from external environment.

* **Availability:**

1. The application must be available to every user on public plate form. (Example: Google Play Store)

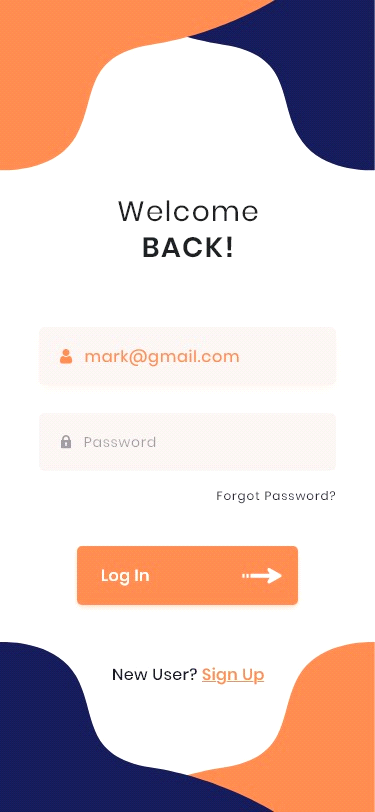
1. The application must be available to use 24/7.

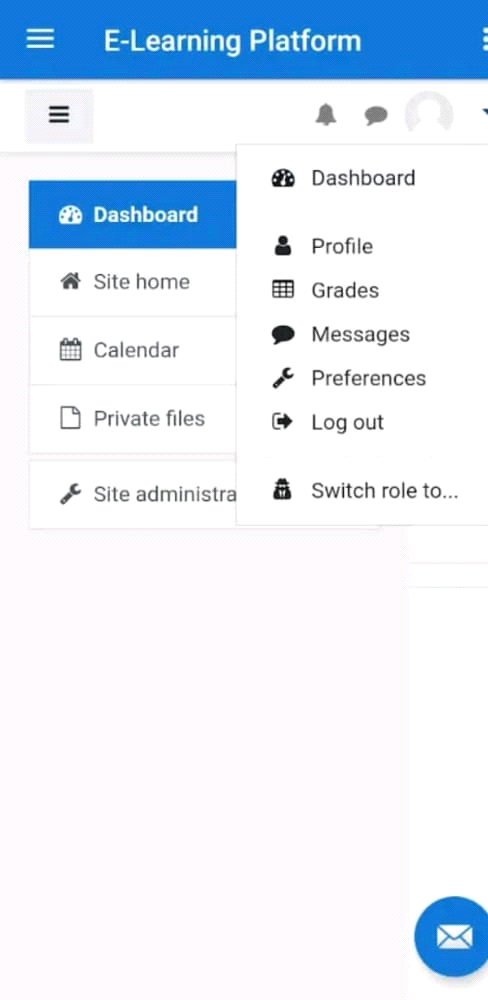
**Interface of Mobile Application:**

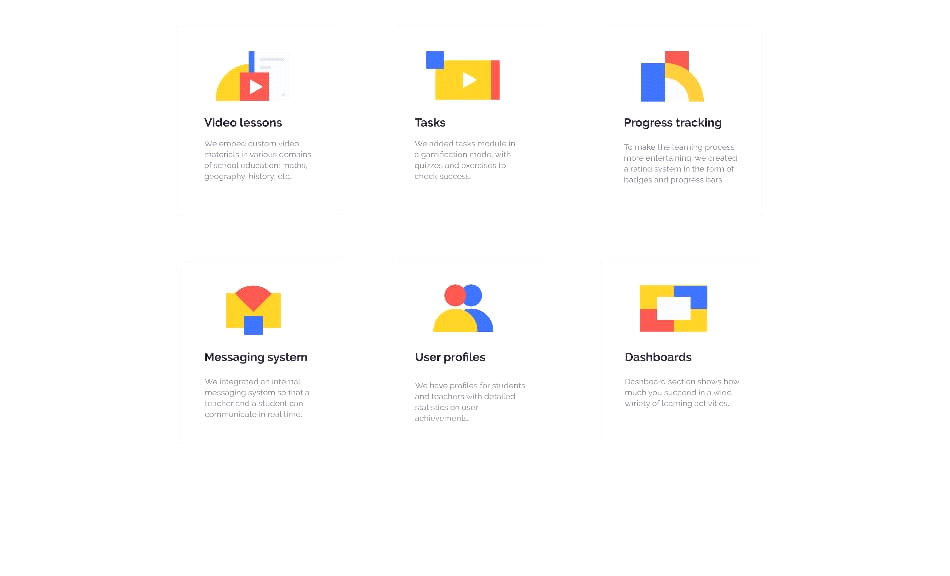
**Link of Application:**

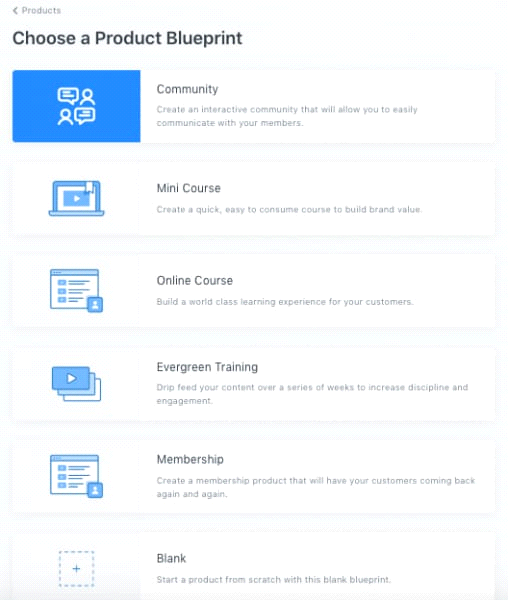
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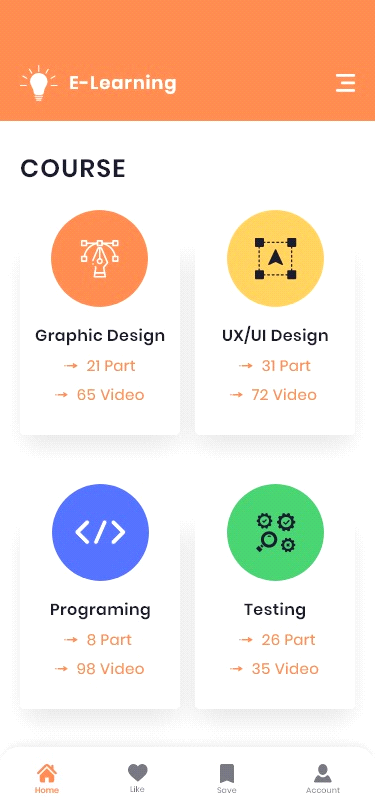
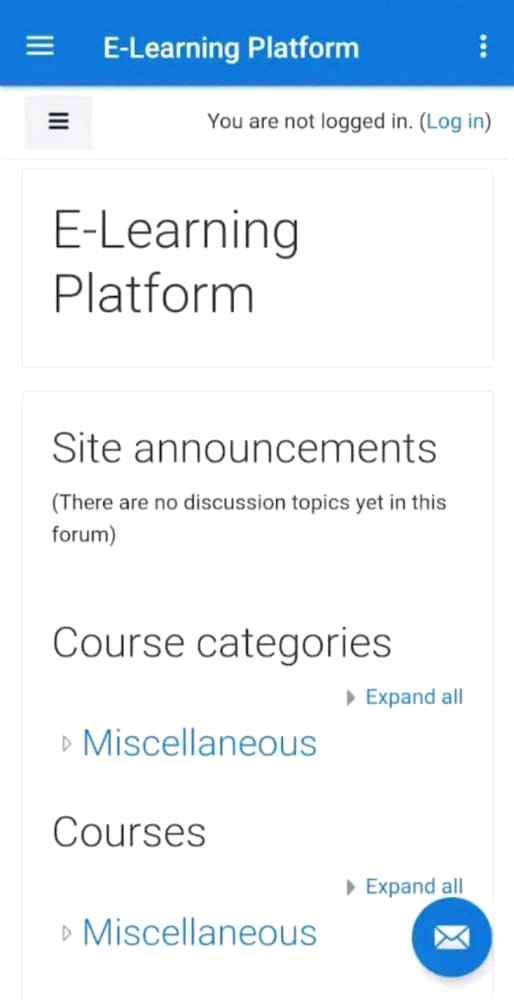


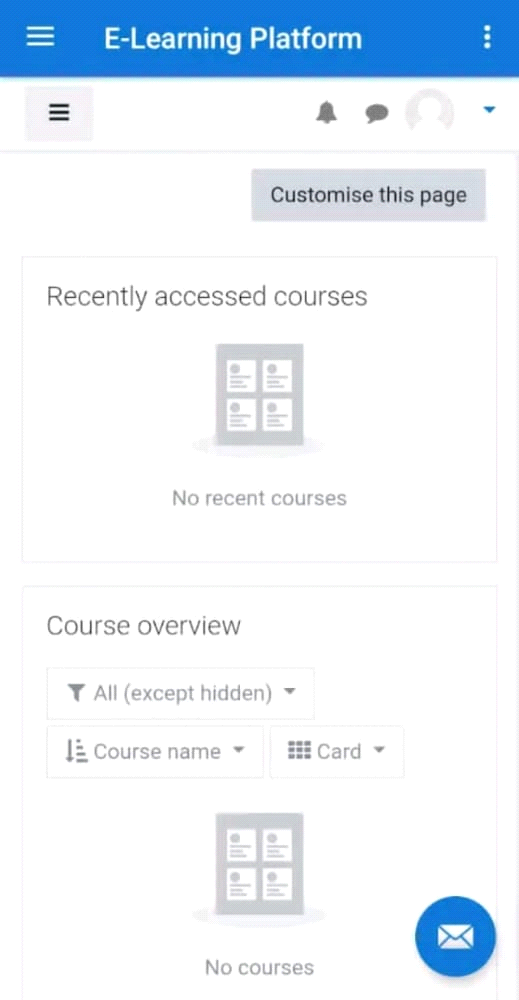




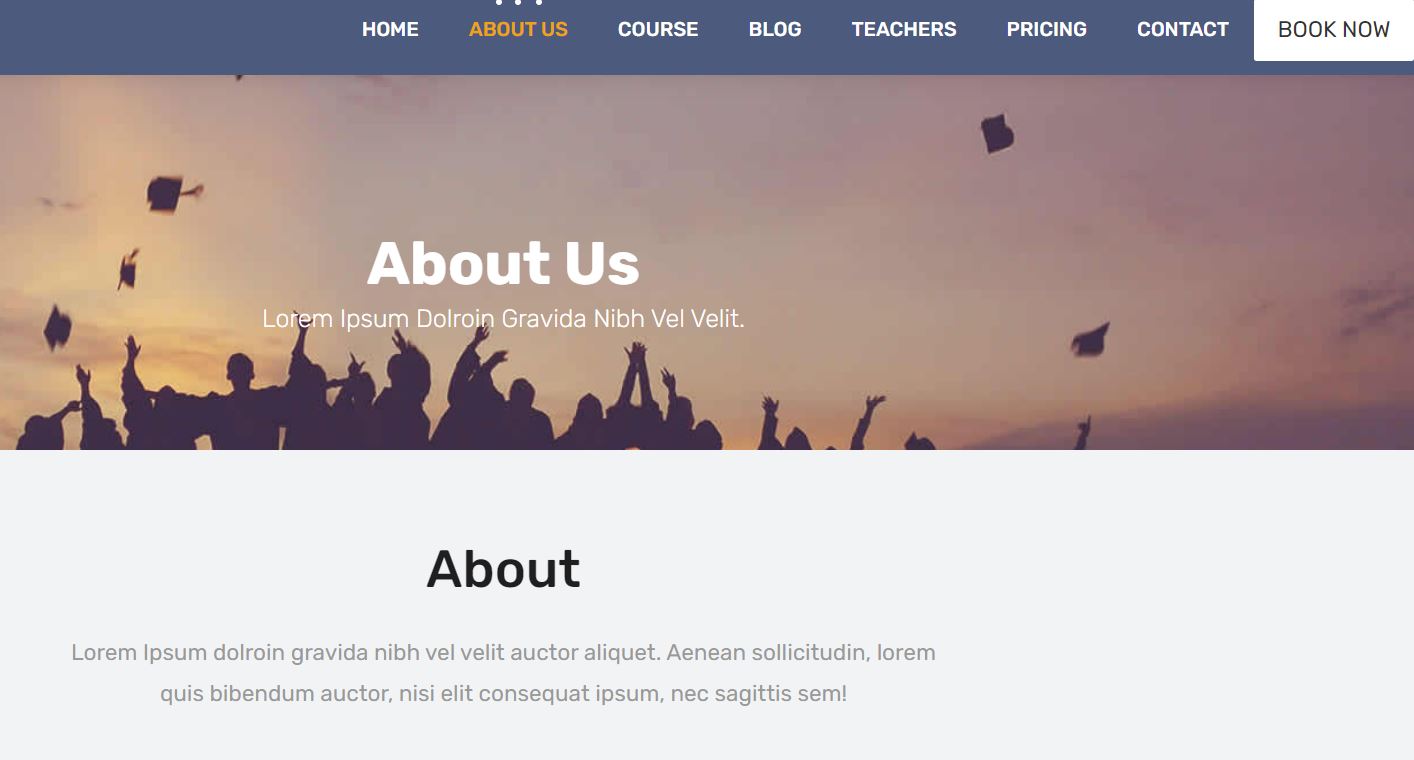
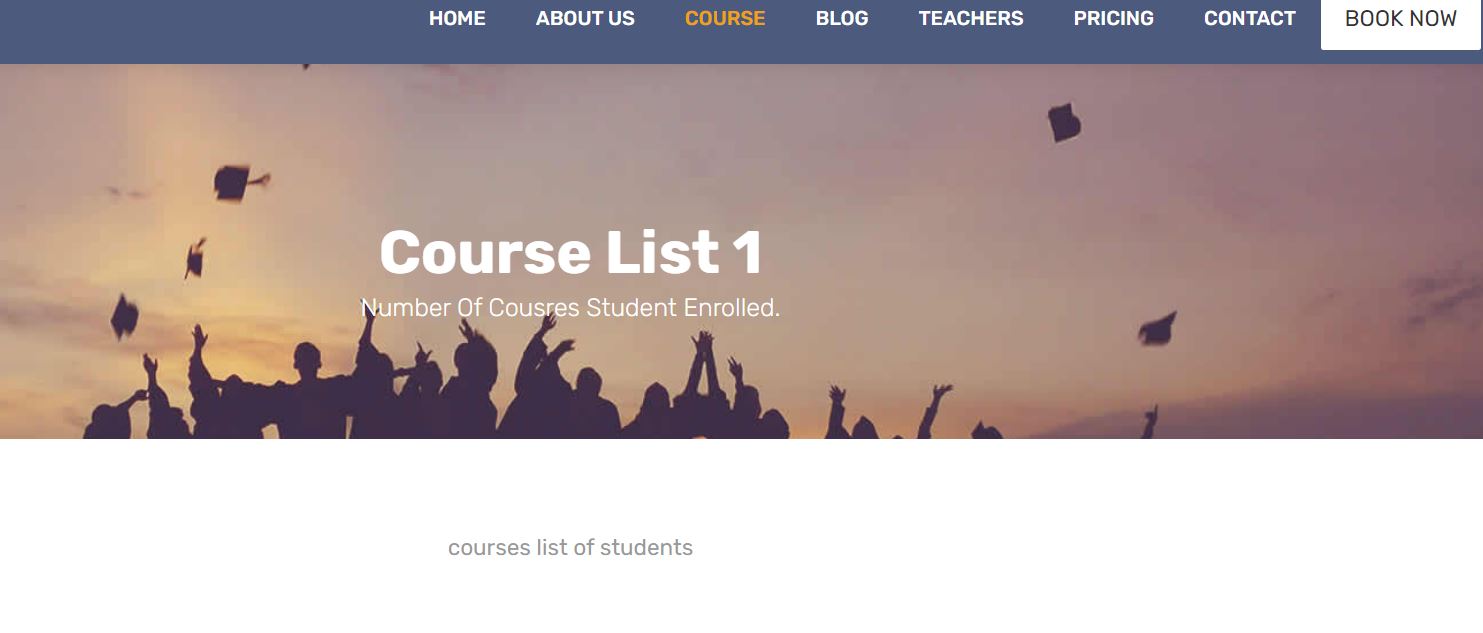
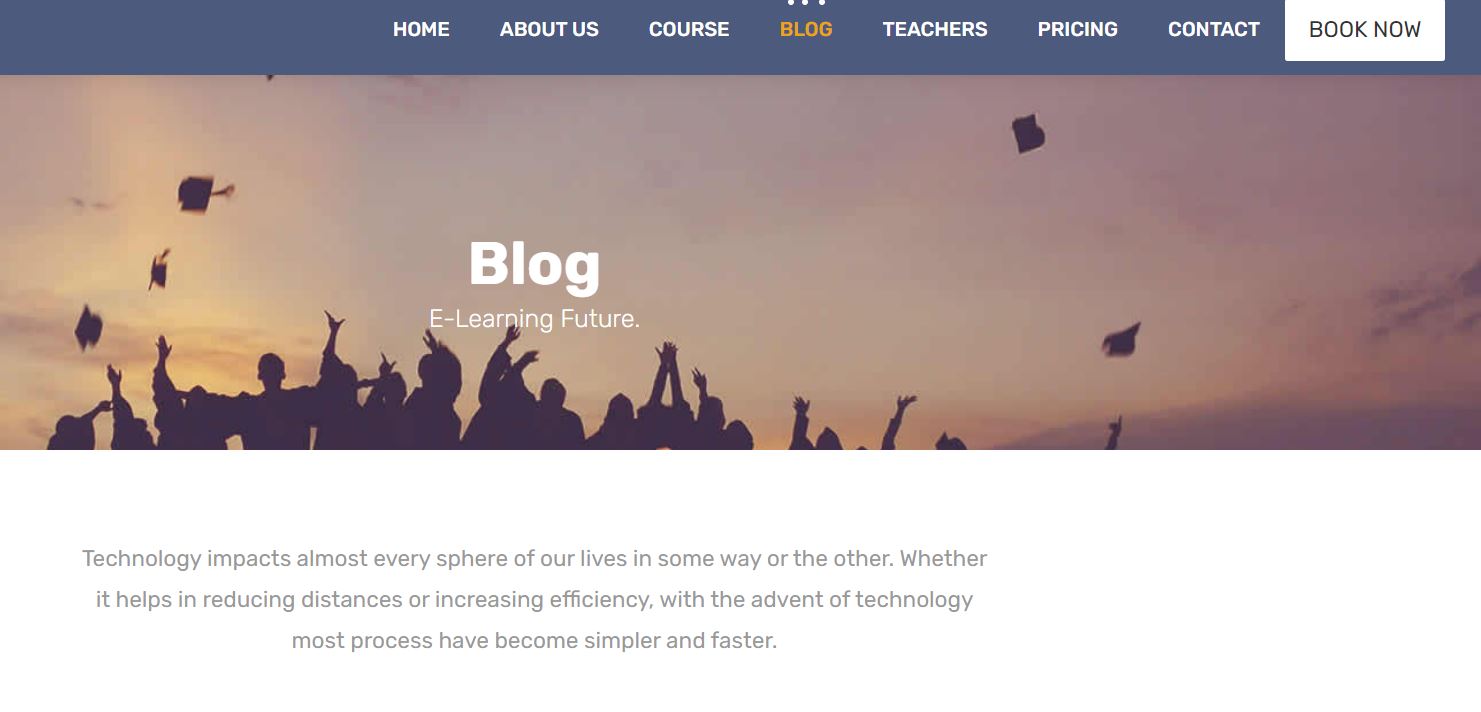


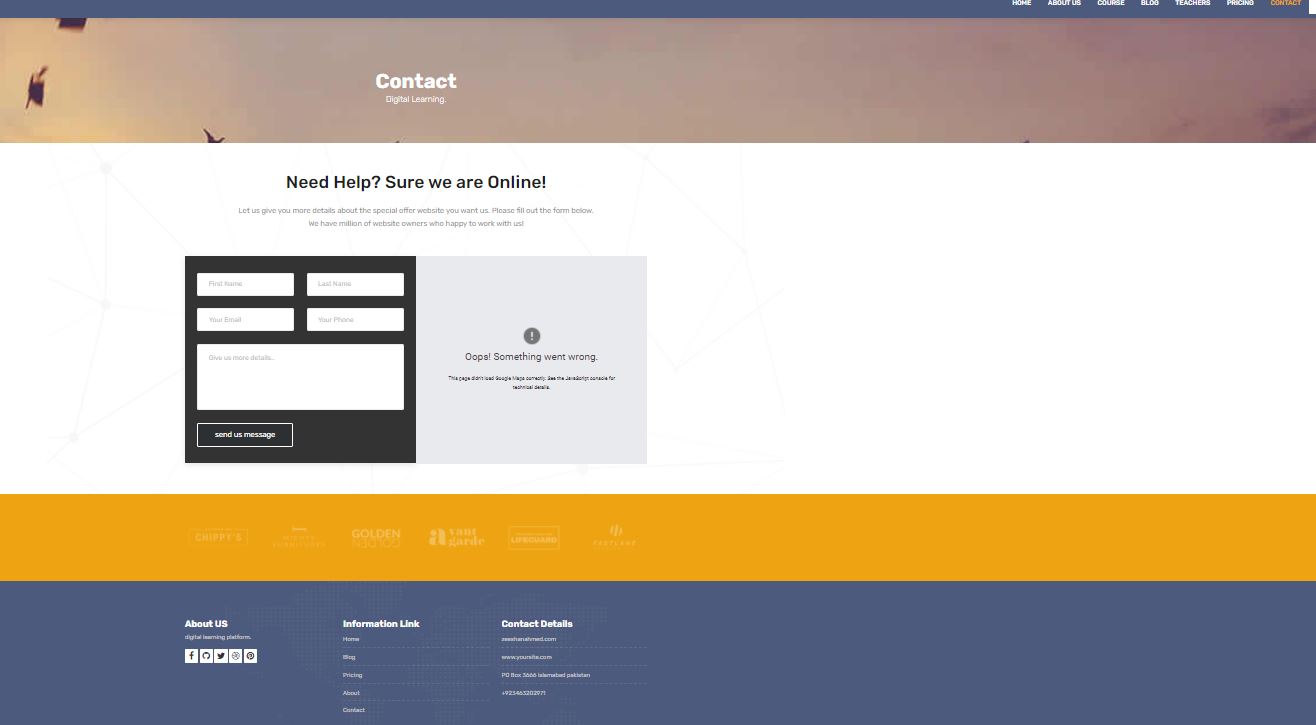






**Interface of Web Application:**



**Version Controlling:**

We use GitHub for version controlling.

**GitHub Link:**

<https://github.com/Aneela41386/software-construction/projects>

**Bug Tracking:**

We use bugzilla software for bug tracking and debugging.

**Report of Bugzilla:**

**Link of Bugzilla Report:**

<https://bugzilla.mozilla.org/show_bug.cgi?id=1749685>

**Bugzilla ID:**

1749685

