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Student Exam Registration System for University

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ABSTRACT: As known and also discussed very often, in this real-world education plays a very important role. Education helps us in gaining knowledge of particular subject. Education fulfils the purpose of life. So, when gaining knowledge and learning was not possible during pandemic. And also, we are familiar with pandemic situation and its effects on our life. The COVID-19 pandemic has affected people regardless of nationality, level of education, income or gender. It has affected education system too. As most of education, in our country was conducted in offline mode, but due to pandemic, picture has changed. During pandemic all universities were closed. It was very difficult for student pursuing higher education to cope up with situation. Also, colleges and universities are complex institutions that require efficient management to function effectively. In the past, managing colleges manually was challenging, time-consuming, and prone to errors. Online learning or e-learning was the best outcome of this pandemic. Students are connected with teachers, mentors through online meetings. The importance of online learning came into existence. Many colleges adopted various online activities and practices. Most of existing online learning systems provided exchange of resources and study material between students and mentors. But the problem is that students expect online learning and the whole registration process to be efficient, authenticated, secured and could be performed at ease. So to deal with this students problem, instead of creating an application which requires download we made a website which can be easily accessed. The website of exam registration portal we implemented makes it easy for students from college to fill their information without considering any error by any staff. Students can access their progress reports, register for university exam from remote location and many more. The most important thing is that this information will be authenticated with respect to students. The website will provide an ability to update or submit an application of university students from any remote location.

KEYWORDS: Student, College, Exam, PHP, Administrator, Online application, Web application.

I. INTRODUCTION

The primary aim of developing a web-based software for storing and managing student and academic records is to create a cost-effective and environmentally friendly solution. Access to crucial student information is restricted to authorized personnel only. The system incorporates various security measures such as user authentication to ensure that only essential details are accessible. In contrast to traditional file systems, our software prioritizes data security by requiring authorized login credentials for access, thereby minimizing the risk of data breaches. Emphasizing data security and confidentiality, our system employs robust authentication mechanisms to safeguard sensitive student information, fostering a secure academic record-keeping environment. Moreover, by eliminating paperwork, our software not only reduces costs but also aligns with modern trends towards digitalization, promoting ease and safety in organizational operations. Overall, our software offers enhanced security, cost-effectiveness, and environmental sustainability compared to traditional methods.

Furthermore, our web-based software enhances administrative efficiency by streamlining data management processes. Through its intuitive interface, authorized personnel can swiftly input, update, and retrieve student and academic records, saving valuable time and resources. By centralizing information storage, the system facilitates seamless access to pertinent data, enabling educators and administrators to make informed decisions promptly. Additionally, automated notifications and reminders enhance organizational productivity by ensuring timely completion of tasks and deadlines. This optimization of administrative workflows not only enhances operational efficiency but also contributes to a more effective and responsive educational environment.

Moreover, the software's scalability ensures adaptability to evolving educational needs, accommodating growth and changes in student populations and academic requirements. Its robust analytics capabilities enable data-driven decision-making, empowering institutions to enhance student outcomes and institutional performance continually.

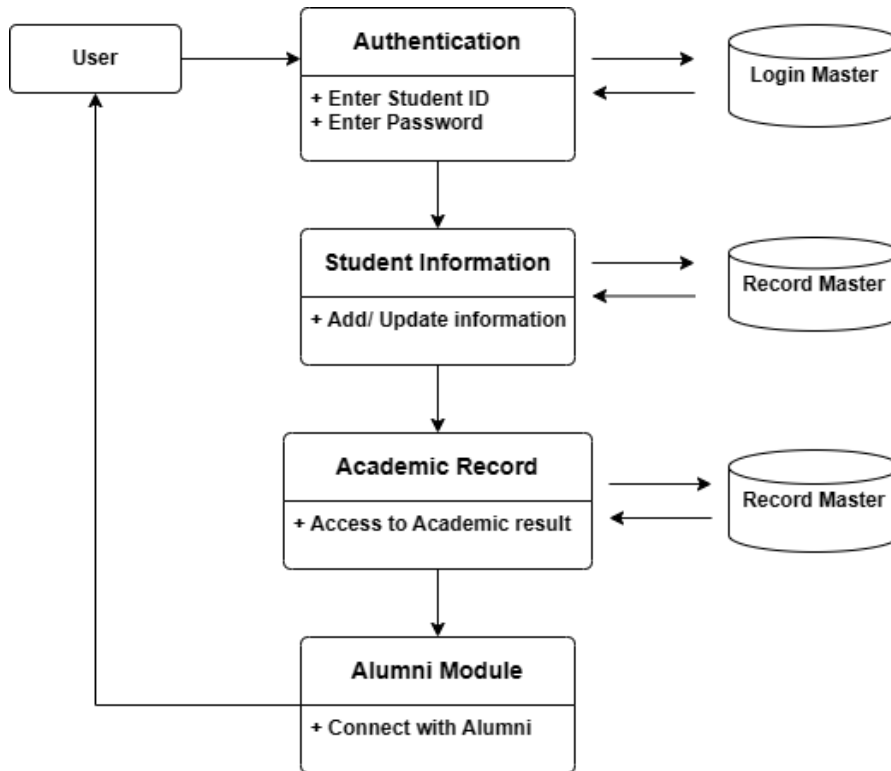
II. RELATED WORK

Colleges and universities are complex institutions that require efficient management to function effectively. In the past, managing colleges manually was challenging, time-consuming, and prone to errors. This paper described the concept of systematic approach with all of the features specified in the system requirements specifications Sudarshan Sawant et al. [1]. In next paper, everything is remotely accessible to any person across the globe on tip of his/her finger. Likewise, online education available to students of colleges is important ones. So, with this great surge in providing education in offline modes to through online using student portal Rupal More et al. [2]. In [3], the student using his login credentials view his report similarly faculty using their login credentials evaluate students respectively. The administrator can add new users in faculty and student sections, it can also add new subjects, classes as per the sessions. The admin is provided with the privileges to modify the student and faculty information by updating their details in web application. The update of any current session or previous one is done by the administrator. In [4], the crucial information related to a student is only accessible to authorized persons on this software. The system is equipped with several security aspects like user authentication, and it will only show necessary details. It is very safe software because to get access to any information one need to login in the portal and login will be provided to authorized people only whereas in file systems, data security very less as compared to this system. When a student gets admission in the institution, he/she will be registered on the portal and will be provided with a login and password. Student can view his/her own record only on this portal. In [5], traditional system which was mainly paper-based, required large amount of space to store information. It limits the exchange of information, updating and causes loss of documentation. A collaborative work in this system becomes rigid and degrades performance. This project on student information management system is one complete information management solution for students and staff of any educational institution.

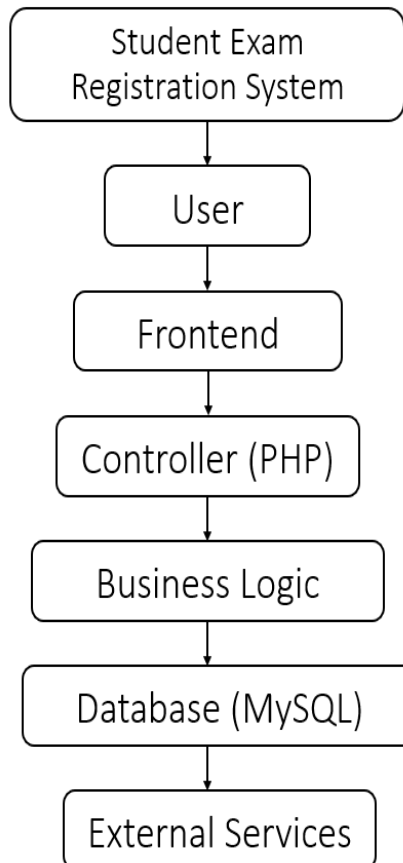
III. METHODOLOGY

In this Project we decided to develop an web application useful to the students and administrator working in the university or institute. For this web application we decided to give a sub module like login and sign-up screen for security and authentication purpose in which student give all information like enrollment number, name, mobile no, and password. By using enrollment number student will lead to the login page and gets the authority to update, insert and modify the information. The development of an web app for students, with a focus on security, user information, and useful features, is a commendable initiative to provide valuable resources to the education community.

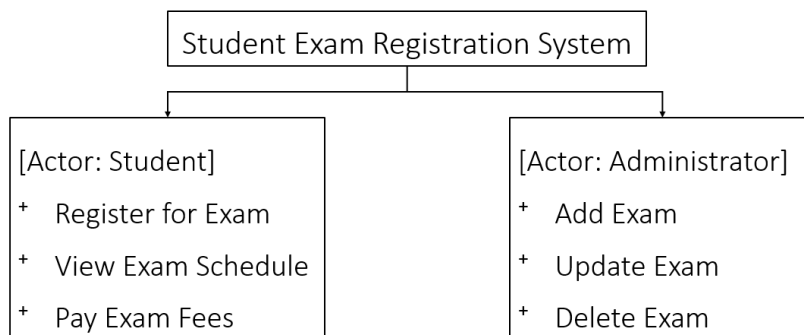
Figures shows the actual architecture or the work flow of the application through which the methodology flows. Figs.3 (a), (b), and (c) shows the data flowed throughout the application and user case diagram respectively.



(a)



(b)



(c)

Technologies-

HTML (Hypertext Markup Language):

HTML is the backbone of the World Wide Web, serving as the standard markup language for creating web pages and applications. It provides the structure and semantics necessary for organizing content on the internet. HTML documents consist of elements, which define the different parts of a web page such as headings, paragraphs, images, links, and more. Browsers receive HTML files from web servers and interpret them to display multimedia web pages. HTML works in conjunction with CSS and JavaScript to enhance the appearance and functionality of web content.

CSS (Cascading Style Sheets):

CSS is a style sheet language used to define the presentation and layout of HTML documents. It allows web developers to control the visual aspects of web pages, such as fonts, colors, spacing, and positioning. By separating the content from its presentation, CSS enables greater flexibility and consistency in web design. Styles can be applied directly within HTML documents or linked externally, providing a modular approach to styling web pages. CSS is essential for creating visually appealing and responsive websites across various devices and screen sizes.

JavaScript:

JavaScript is a dynamic and versatile programming language primarily used for enhancing interactivity and functionality on websites. As one of the core technologies of the World Wide Web, JavaScript enables developers to create dynamic web pages that respond to user actions in real-time. It can manipulate HTML and CSS, handle events, communicate with web servers asynchronously (AJAX), and much more. JavaScript's popularity has soared due to its ability to create interactive user interfaces, perform client-side form validation, and develop web-based applications, including online games and multimedia experiences.

PHP (Hypertext Preprocessor):

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. It is embedded within HTML documents and executed on the server, generating dynamic web content before sending it to the client's browser. PHP is known for its simplicity, flexibility, and extensive support for databases, making it ideal for building dynamic websites, content management systems (CMS), e-commerce platforms, and web applications. With features like session management, file handling, and support for various protocols, PHP empowers developers to create robust and scalable web solutions.

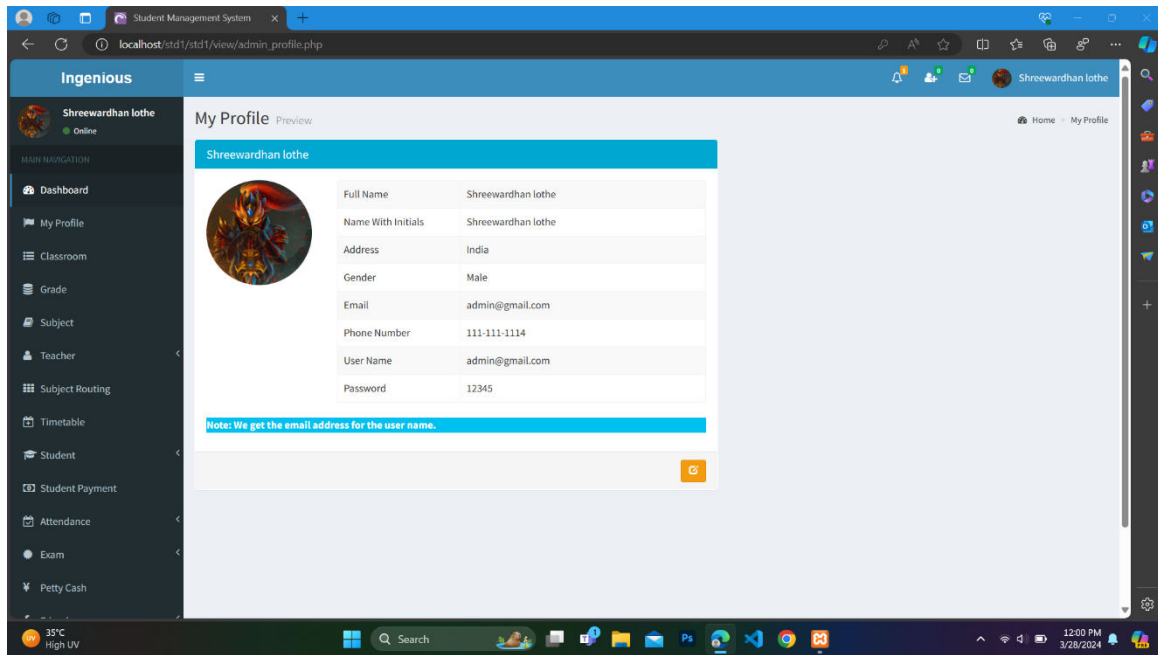
XAMPP:

XAMPP is a cross-platform software package that provides an easy-to-install and pre-configured environment for developing PHP-based web applications. It includes essential components such as Apache, MySQL, PHP, and Perl, bundled together for seamless setup on Windows, macOS, and Linux operating systems. XAMPP simplifies the process of creating a local web server, allowing developers to test their applications offline before deploying them to live servers. By providing all the necessary tools and libraries in one package, XAMPP accelerates the development and debugging of PHP projects, making it an invaluable resource for web developers.

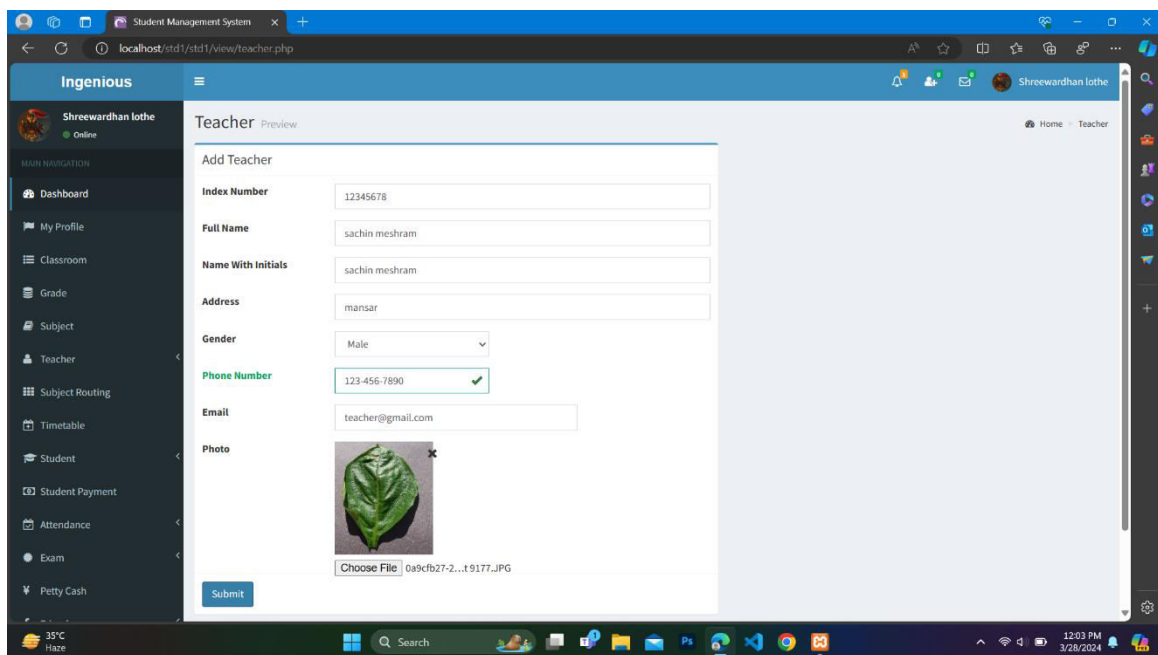


IV. EXPERIMENTAL RESULTS

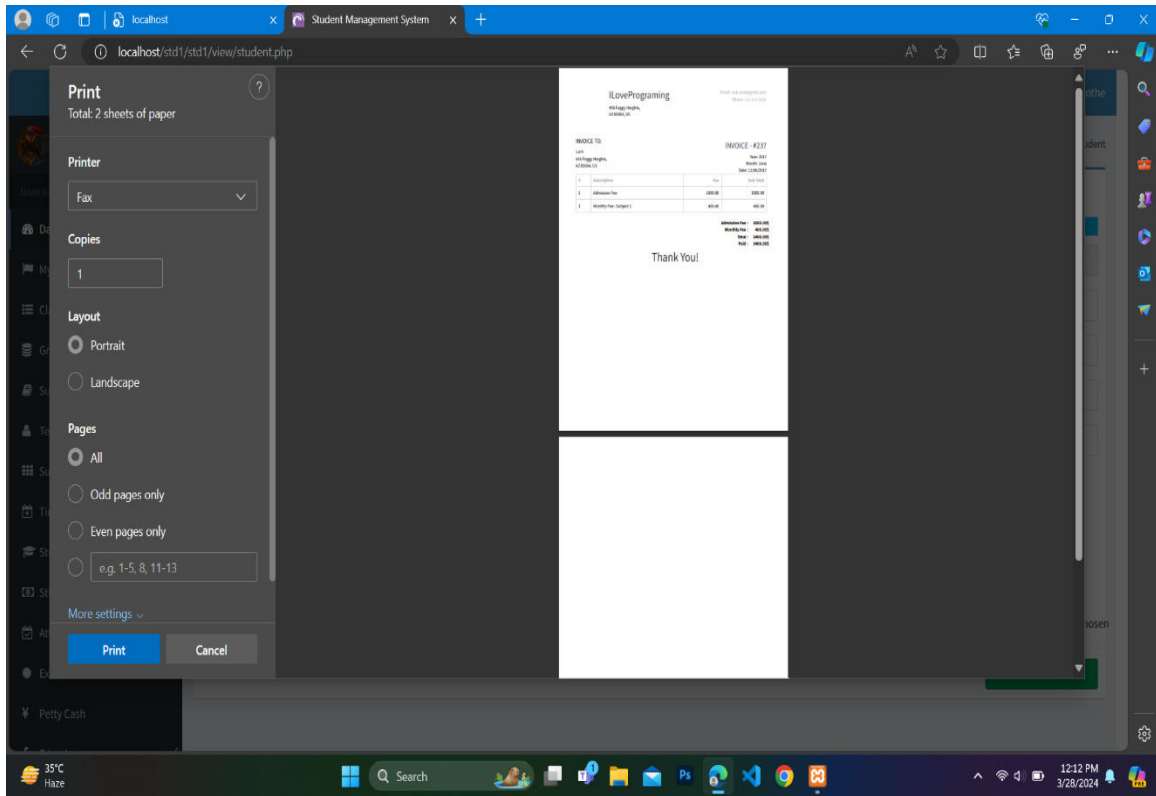
Figures shows the results of exam registration system web application developed in this term. Figs.(d), (e), (f), (g), (h), (i) shows the original image. In this fig (d) describes admin login page and fig (e) describes Teacher module. Furthermore, fig (f) describes fee payment receipt generation. Also fig (g) describes attendance module. Next fig (h) describes Student login Module. At last fig (i) shows the Guardian details.



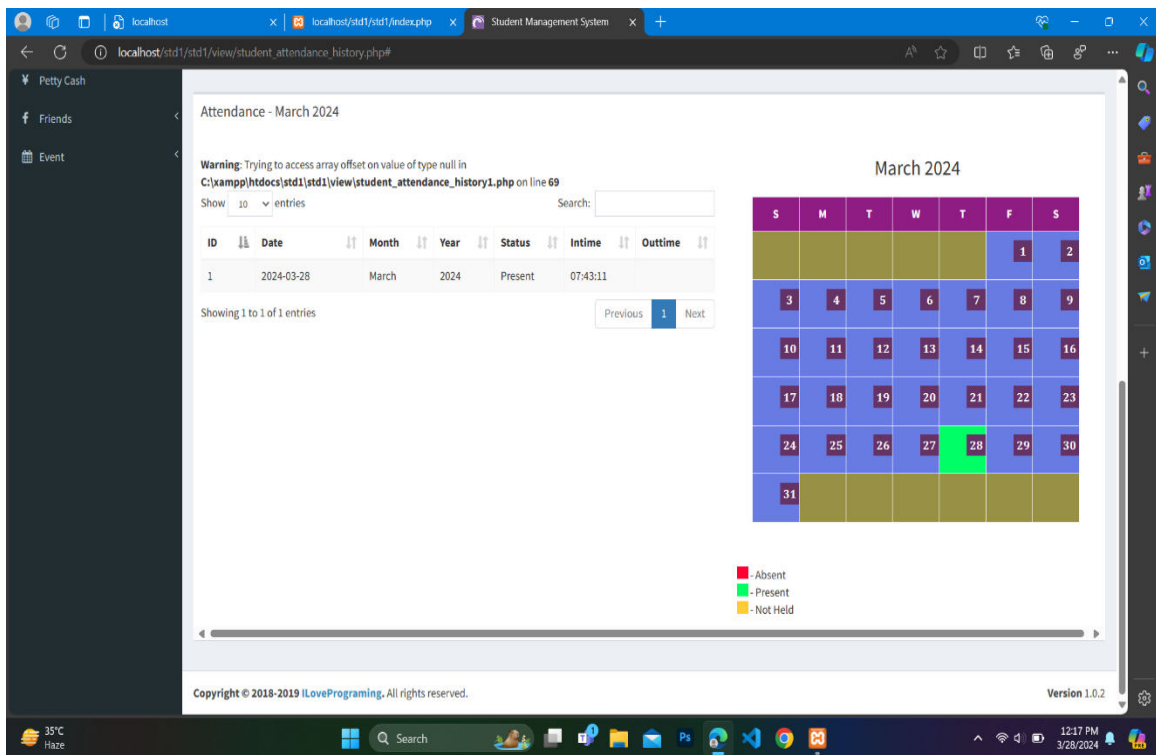
(d)



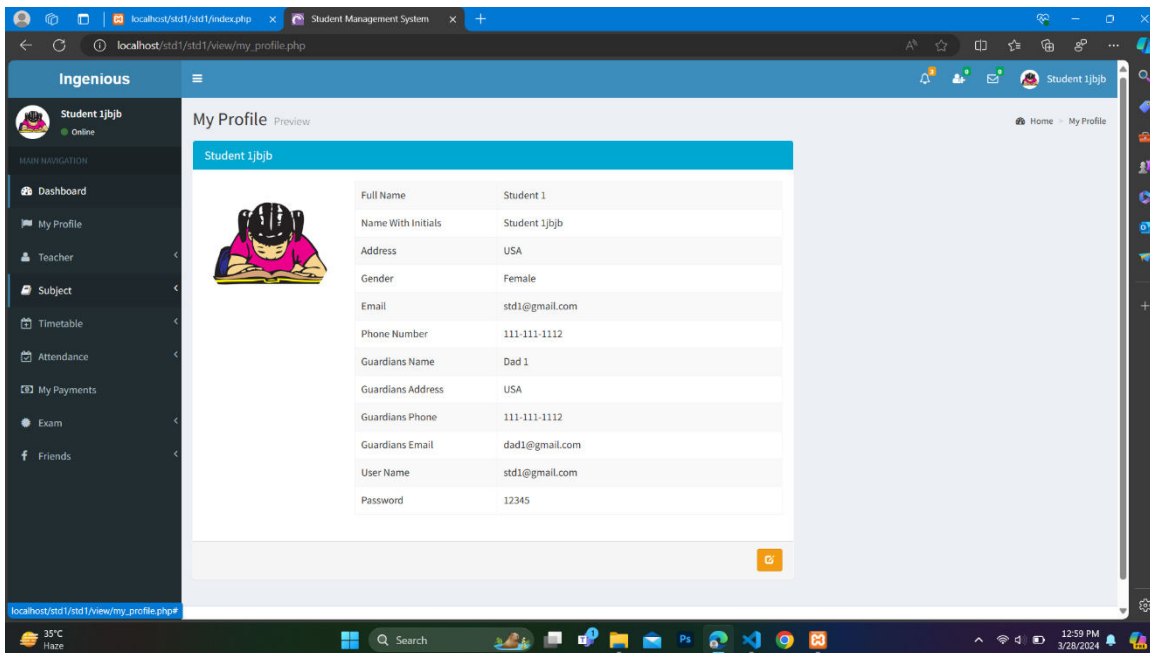
(e)



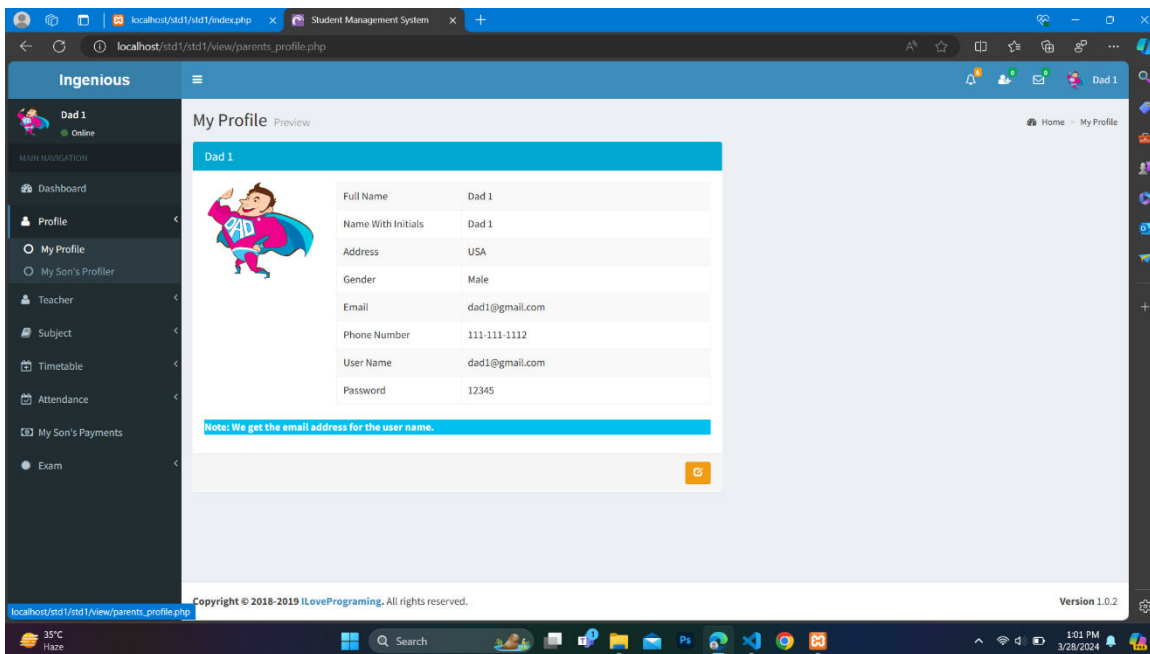
(f)



(g)



(h)



(i)

V. CONCLUSION

The software is a web-based software product and it is functional on several browsers like Chrome, Internet explorer etc. The software was developed on a windows operating system and is working completely fine. Thus, here we conclude that the development of Student Information System software is completed and it is tested several times.

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