

**E-Learning Platform**  
**Project II Report**  
Submitted by  
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22MCA053  
Under the Guidance of  
Dr. L. Thara, MCA., M.Phil., Ph.D.  
Associate Professor  
**Department of Computer Applications (MCA)**  
In partial fulfillment of the requirements for the award of the degree of  
**Master of Computer Applications**  
of Bharathiar University



**Department of Computer Applications (MCA)**  
**PSG COLLEGE OF ARTS & SCIENCE**  
An Autonomous College-Affiliated to Bharathiar University  
Accredited with 'A++' grade by NAAC (4<sup>th</sup> Cycle)  
College with Potential for Excellence  
(Status Awarded by the UGC)  
Star College Status Awarded by DBT - MST  
An ISO 9001:2015 Certified Institution  
Civil Aerodrome Post, Coimbatore - 641 014  
April 2024  
**PSG COLLEGE OF ARTS & SCIENCE**

L.Thara  
27/03/2024

Approved by the Academic Council  
of Anna University  
Approved by the UGC  
Approved by DBT - MHRD  
Approved by Anna University  
Approved by MCI

(P.U.)

Department of Computer Applications (MCA)

## DEPARTMENT

"Learning Platform" is a bonafide record of  
fulfilment of the requirements for the award of  
degrees of Anna University.

## **PSG COLLEGE OF ARTS & SCIENCE**

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Civil Aerodrome Post, Coimbatore -641 014

(Ph)

**Department of Computer Applications (MCA)**

## **DECLARATION**

I, **Sakilesh J (22MCA053)**, hereby declare that this Project work entitled "E-Learning Platform" is submitted to PSG College of Arts & Science (Autonomous), Coimbatore in partial fulfillment for the award of degree of Master of Computer Applications, is a record of original work done by me under the supervision and guidance of Dr. L. Thara, MCA., M.Phil., Ph.D.,

College of Arts & Science, C...

successful completion of this project.

I express my deep sense of gratitude and sincere thanks to our Principal Dr. D. Brindha MSc., MPhil., PhD., MA (Yoga) for her valuable advice and concern on students.

I am very thankful to Dr. A. Anguraj, M.Sc., M.Phil., Ph.D., Vice Principal (Academic Affairs - Self Finance), Dr. M. Umarani, M.B.A., MPhil., Ph.D., Faculty-in-charge (**Student Affairs-Self Finance**) for their support.

I kindly and sincerely thank Dr. L. Thara, MCA., M.Phil., Ph.D., Associate Professor, Department of Computer Applications (~~MCA~~) for her whole hearted help to complete this project successfully by giving valuable suggestions.

I convey my heartiest and passionate sense of thankfulness to my project guide Dr. L. Thara, MCA., M.Phil., Ph.D., Associate Professor, Department of Computer Applications (~~MCA~~) for her timely suggestions which had enable me in completing the project successfully.

This note of acknowledgement will be incomplete without paying my heartfelt thanks to my parents, my friends and other people, for their blessings, encouragement, financial support and patience, without which it would have been impossible to

## SYNOPSIS

" is a cutting-edge e-learning platform created to completely accessible and provided in the digital era. E-Learning Platform learning experience for professionals, students, and lifelong learners g demand for adaptable and accessible learning solutions.

a wide selection of courses in a number of subject areas, such as  
ment, skill development, and personal enrichment. Learners may  
age with peers and instructors, and peruse a wealth of instructional  
er-friendly design.

tors can upload the course materials and instructions to the "E  
s can sign up for the courses that meet their needs. It comprises  
ructor, depending on the routes they have overseen.

r learning experience, learners can check their performance  
al time, and get actionable insights. In order to improve course  
re important insights into the performance and engagement of

certain styles and components, or remember complicated ones like sidebar-inner-wrapper.

You can make safer changes. With the traditional approach, if you make changes to certain styles and components, or remember complicated ones like sidebar-inner-wrapper, it may break something across your site. Unlike CSS, utility classes in your HTML are local. This means you can change them without worrying about breaking something else on your site.

## EXPRESS

Express is a node js web application framework that provides broad features for building web and mobile applications. It is used to build a single page, multipage, and hybrid application. It's a layer built on the top of the Node js that helps manage servers and routes.

### Uses of Express JS?

- Express was created to make APIs and web applications with ease.

### 3. SYSTEM ANALYSIS

For subtitles  
Follow similar font  
size & style  
either fully caps  
or proper case

offers the bare minimum of features so that students may access  
chters, and do assignments. It most certainly has attributes like An  
ranged according to topics or subjects. A method of registration  
utilize the platform. The option for users to sign up for desired  
tribution of learning resources like papers, films, and quizzes.  
n for interactions between teachers and students, such as  
A basic method of monitoring a student's advancement in  
payments for premium features or paid courses, if

e to the current e-learning platform to make it better  
learning experience. Present interactive, multimedia-  
mented reality, simulations, and virtual labs. This  
and enhance the effectiveness and in-

### **3. SYSTEM ANALYSIS**

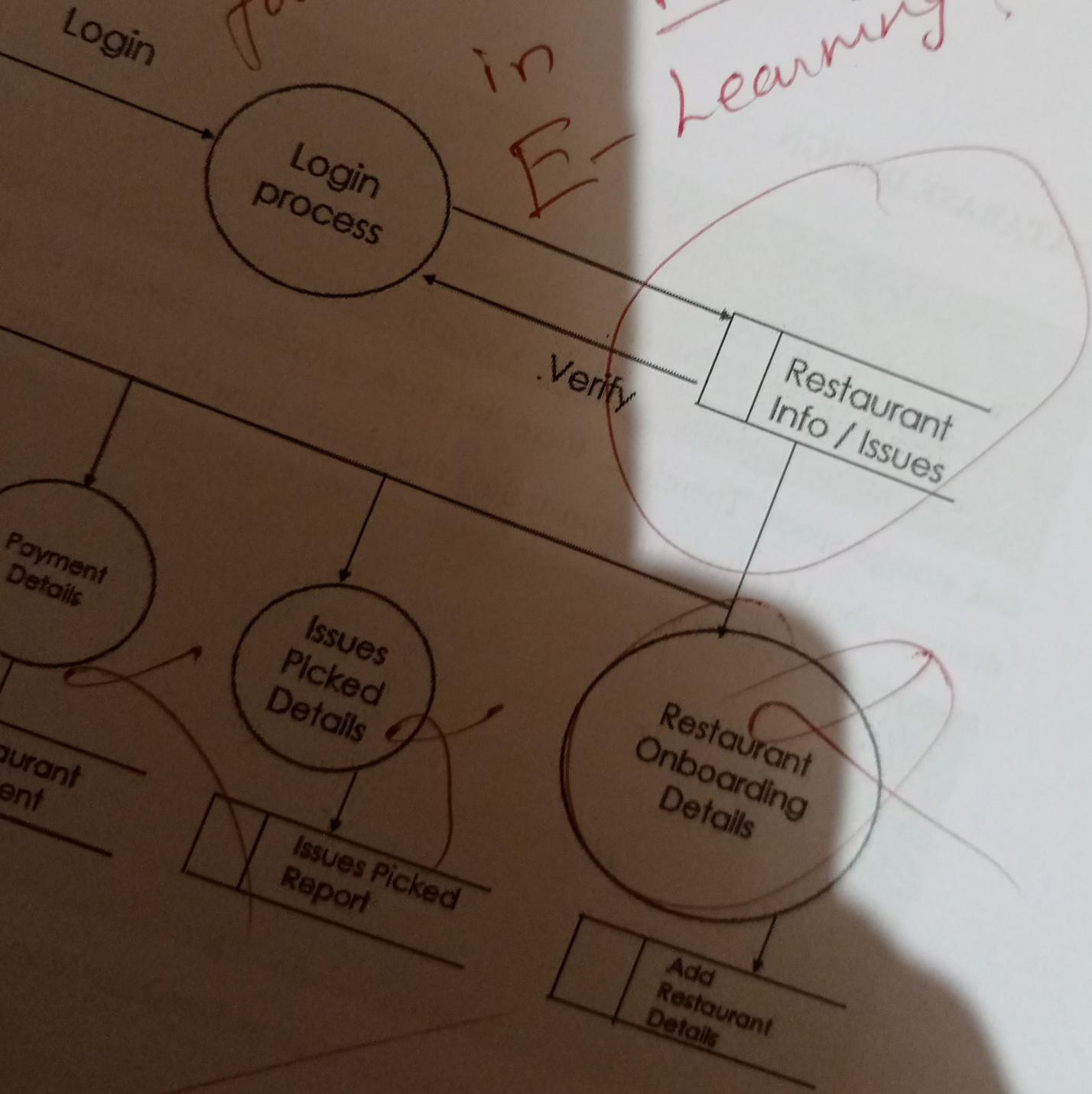
#### **3.1. Existing System**

The Existing system offers the bare minimum of features so that courses, communicate with teachers, and do assignments. It most certainly inventory of offered courses arranged according to topics or subjects. A and login that allows users to utilize the platform. The option for users courses. Content delivery is the distribution of learning resources like pap Simple channels of communication for interactions between teachers message boards or discussion boards. A basic method of monitoring a st registered courses. System for handling payments for premium featur appropriate.

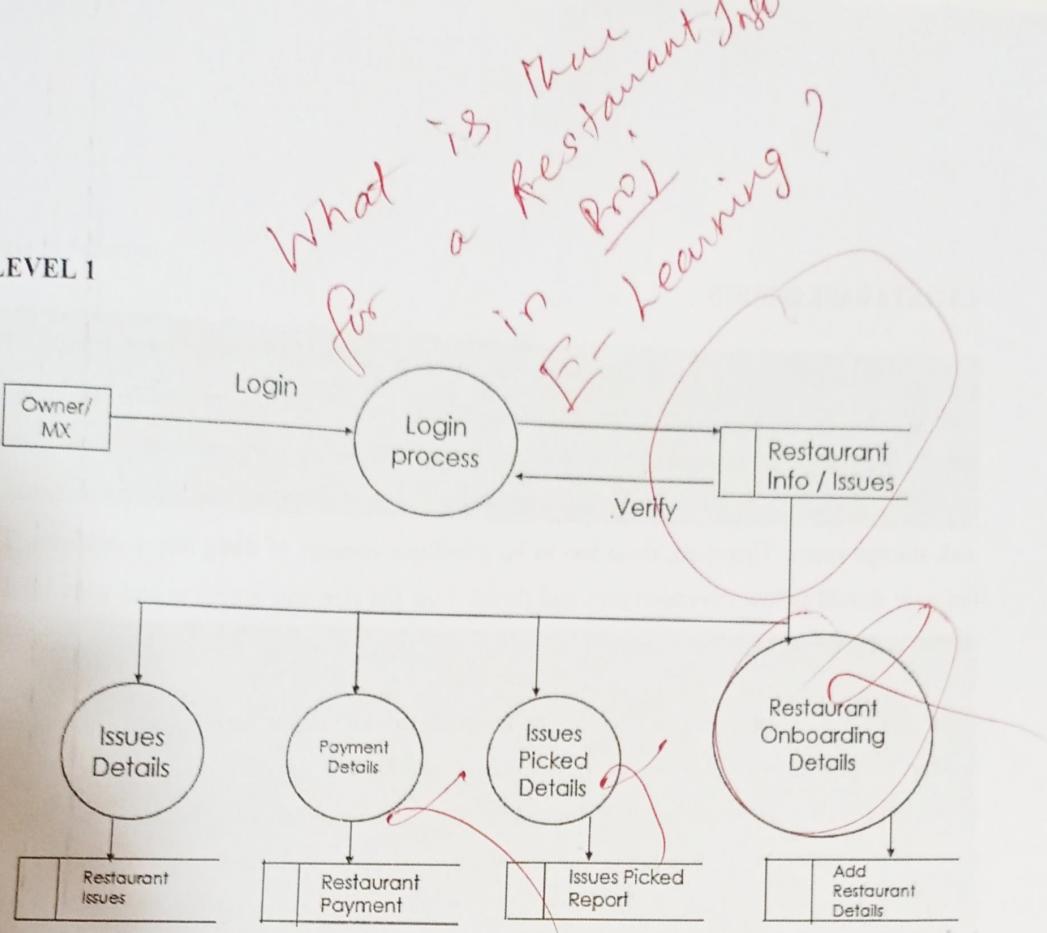
#### **3.2 PROPOSED SYSTEM**

These improvements could be made to the current e-learning p and offer a more thorough and interesting learning experience. Present rich content delivery techniques including augmented reality, simulation will accommodate various learning preferences and enhance the effect the learning process. Include cutting-edge assessment technolog assignments, auto-graded tests, and real-time feedback systems. This insightful evaluations and enable teachers to more precisely analyze s create a lively learning community, improve the tools for collaboration could contain elements that allow students to communicate with class time, such social learning networks, group projects, and live discussi

What is the  
for a restaurant Info  
in E-Learning?



LEVEL 1

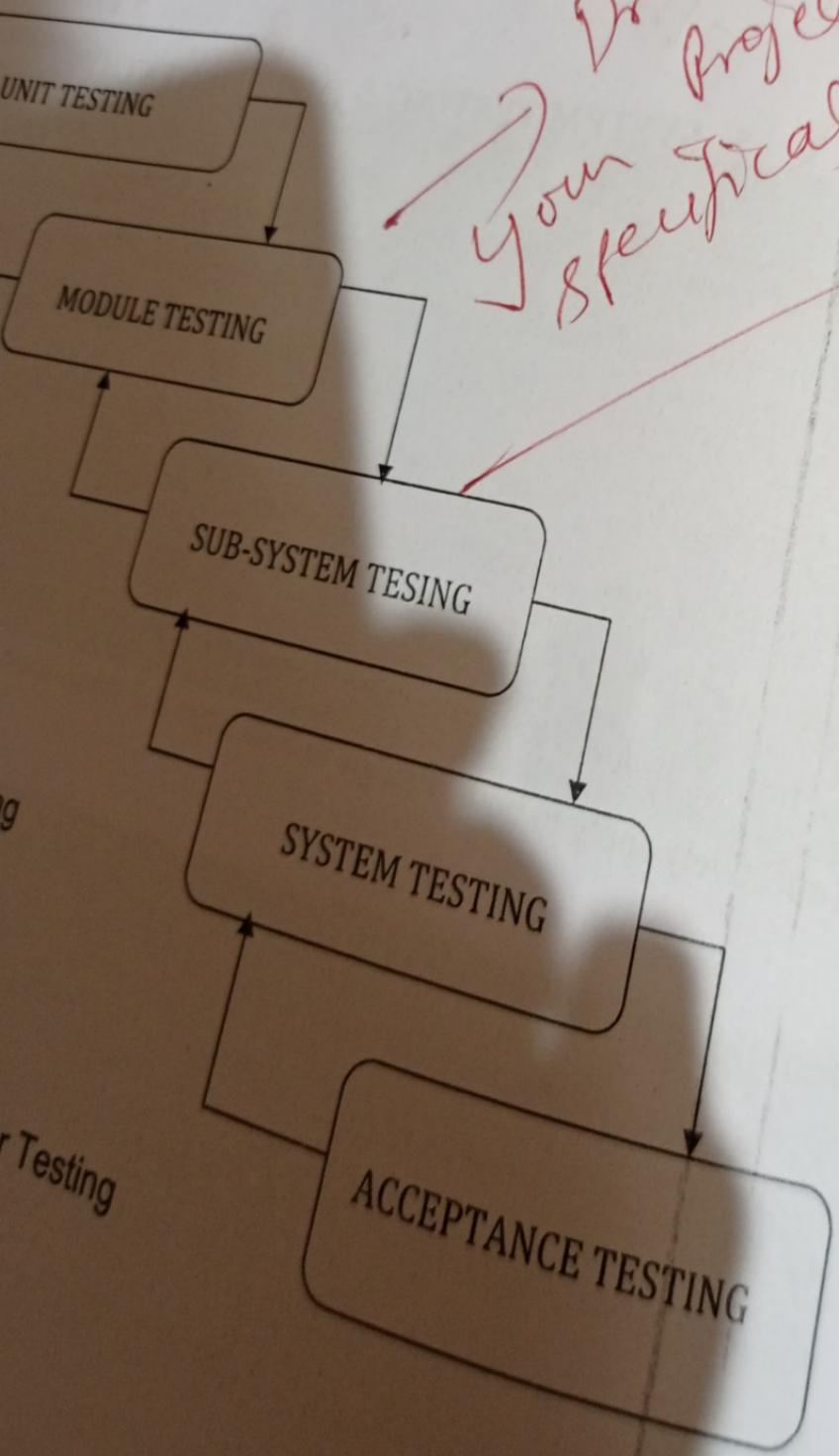


Change this diagram?

ER

IS

where



smallest unit of software design, the  
some modules the

### **5.3 SOFTWARE SECURITY**

System security refers to various validations on data in form of checks and controls to avoid the system from failing. It is always important to ensure that only valid data is entered and only valid operations are performed on the system. The system employs two types of checks and controls:

needed  
for your job  
Not needed  
commonly

### **5.4 CLIENT SIDE VALIDATION**

Various client side validations are used to ensure on the client side that only valid data is entered. Client side validation saves server time and load to handle invalid data. Some checks imposed are:

- Formik is used to ensure those required fields are filled with suitable data only. Maximum lengths of the fields of the forms are appropriately defined.
- Forms cannot be submitted without filling up the mandatory data so that manual mistakes of submitting empty fields that are mandatory can be sorted out at the client side to save the server time and load.
- Tab-indexes are set according to the need and taking into account the ease of user while working with the system.

### **5.5 SERVER SIDE VALIDATION**

Some checks cannot be applied at client side. Server side checks are necessary to save the system from failing and intimating the user that some invalid operation has been performed or the performed operation is restricted. Some of the server side checks imposed are:

- In Server-side Validation there is package called zod it helps to validate the input from the client based on the input it either returns true or false it helps to check the fields not to check in db..
- It also validates files and their sizes to store the file as in buffer or grid in any other

Validation saves server time and load to handle invalid data. Some checks

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be submitted without filling up the mandatory data so that manual mistakes empty fields that are mandatory can be sorted out at the client side to save time and load.

are set according to the need and taking into account the ease of user while using the system.

## VALIDATION

✓ write specifically

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In Validation there is package called zod it helps to validate the input data based on the input it either return true or false it helps to check the fields in db..

Upload files and their sizes to store the file as in buffer or grid in any other database in Db.

Filter

Show the menu



INIANS XTC.

1 MR

Dipl. Géolog. Pv. Shaft Of L' Tiba, 7th

[Go to Course](#)



INADEQUATE PEOPLE (NEADEKVATNYE)



AFTERMATH: POPULATION ZERO

1 DR

Nondup Sag Ts Shaft Of L' Tiba, 7th

[Go to Course](#)



CAMP NOWHERE



RUTLES Z: CAN'T BUY ME LUNCH, THE

1 MR

Rock On Rock-On Rock-On Rock-On Track, Pv. L' Tiba, 7th

[Go to Course](#)



PLANET OF THE VAMPIRES (TERRORE)

Give Some Titles

Dashboard

Course Title

#### Description

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ad ipsa incidentum libero dicta, fugit corrupti tempora, notis laudantium mollitia beatas natus magna! A nonnullum ad modis aspernatur amet corrupti, quia ipsum status consequatur facere prope mollitia, et excepturi inventore dolor eius omnis suscipit adipisci! Sed suscipit amete? Modis replicemus velit odio ita que rockandis, mollitia quidem. Malestiae requiri, expugni vel apud ea sed commodi facilis! Nesciunt, architecto quiae sint perspicillae aspernatur id explicabo minima nulla inventore? Recusandae paratur ab veniam, ullam quoque cultu veniente doloribus dolores asperiores ipsum.

Press F11 to exit full screen



evoke

Contact

Course Title:

Description:

Course Description: This course is designed to help students develop skills in critical thinking, problem-solving, and communication. It covers various topics such as research methods, data analysis, and ethical decision-making. Students will learn how to apply these concepts to real-world situations and develop their own projects.

TITLE:

title?

