CREATING TECHNOLOGY LEADERS OF TOMORROW
ESTD 2002

Jyothi Engineering College
NAAC accredited college with NBA Accredited Programmes*
Approved by AICTE & affiliated to APJ Abdul kalam Technological University
A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR
JYOTHI HILLS, VETTIKATTIRI P.O, CHERUTHURUTHY, THRISSUR. PIN-679531, PH : +91- 4884-259000, 274423 FAX :04884-274777
NBA accredited B. Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for the academic years 2016 to 2022
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Project Title: < ---------- >

Guide: < ------ >

Group Members:

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Vision of the Department

Creating eminent and ethical leaders in the domain of Computational Sciences through quality professional education with a focus on holistic learning and excellence.

Mission of the Department

- To create technically competent and ethically conscious graduates in the field of Computer Science and Engineering by encouraging holistic learning and excellence.
- To prepare students for careers in Industry, Academia and the Government.
- To instill Entrepreneurial Orientation and research motivation among the students of the department.
- To emerge as a leader in education in the region by encouraging teaching, learning, industry and societal connect.

Programme Educational Objectives (PEOs)

1. The graduates shall have sound knowledge of Mathematics, Science, Engineering and Management to be able to offer practical software and hardware solutions for the problems of industry and society at large.

2. The graduates shall be able to establish themselves as practicing professionals, researchers or Entrepreneurs in computer science or allied areas and shall also be able to pursue higher education in reputed institutes.

3. The graduates shall be able to communicate effectively and work in multidisciplinary teams with team spirit demonstrating value driven and ethical leadership.

Programme Outcomes

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcomes (PSOs)

On the completion of Computer Science & Engineering program, the students will possess:

1. An ability to apply knowledge of data structures and algorithms appropriate to computational problems.
2. An ability to apply knowledge of operating systems, programming languages, data management, or networking principles to computational assignments.
3. An ability to apply design, development, maintenance or evaluation of software engineering principles in the construction of computer and software systems of varying complexity and quality.
4. An ability to understand concepts involved in modeling and design of computer science applications in a way that demonstrates comprehension of the fundamentals and trade-offs involved in design choices.

Contents

- Introduction ½ slides
- Objectives
- Literature Review (3 Papers)
- Problem statement
- Proposed System
- Architecture of Proposed System /DFD
- Hardware and software requirements
- Applications
- Conclusion
- References [IEEE format]

Introduction

Write brief introduction about this presentation specifically w.r.t. your project objective

Introduction – Sample

Food Ordering: A mobile-based application that allows users to browse restaurants, order food, and track deliveries in real time.

Enhanced User Experience: Provides a seamless interface with secure payment options for a hassle-free ordering process.

Key Features: Includes restaurant listings, menu browsing, order placement, and live tracking to improve service efficiency.

Technology Stack: Developed using Flutter, Firebase, and Node.js, ensuring smooth functionality and scalability.

Objectives

Use the following words to describe the objectives:

To develop

To Implement

To create etc…

Objectives – sample

- To develop a user-friendly platform for browsing restaurants, placing orders, and tracking deliveries in real time.
- To implement secure login, smooth navigation, and hassle-free payment integration for a better customer experience.
- To enable live order tracking and efficient restaurant management for improved service and customer satisfaction.

•literature survey

Sl No	Author, Year, Publisher	Title	Methodology / Dataset / Software / Algorithm etc.…	Inferences
	Shih-Cheng Huang et al. Npj Digital Medicine 2023, Springers	Self-supervised learning for medical image classification: a systematic review and implementation guidelines	Self supervised learning model **DATASET: Clinical data set**	Model Developed for Pre-operative scan.

•literature survey

Sl No	Author, Year, Publisher	Title	Methodology / Dataset / Software / Algorithm etc.…	Inferences
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Problem statement

Write specific problem identified as a single statement w.r.t. literature survey.

Problem statement - Sample

This project aims to develop a user-friendly and efficient food delivery application that simplifies ordering, ensures secure transactions, integrates real-time order tracking, and enhances restaurant management for improved customer satisfaction and operational efficiency.

•Proposed System – Discuss modules

Users interact with the Food Delivery App to browse restaurants, place orders, and track deliveries.

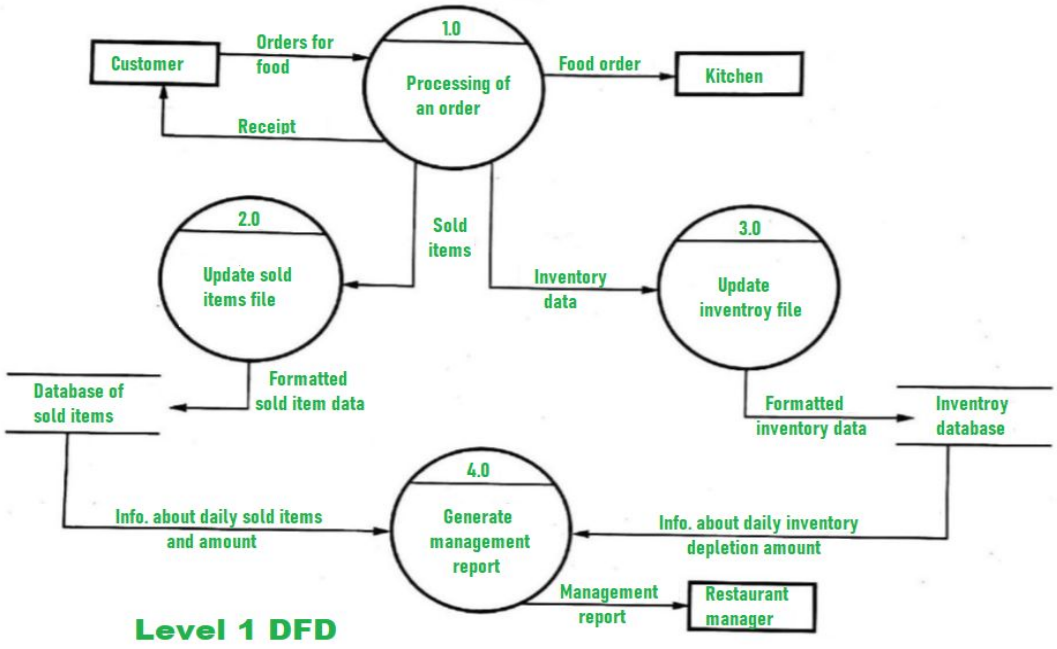
Restaurants receive orders and update order status.

Delivery Personnel handle order pickups and deliveries.

Payment Gateway processes online transactions securely.

Architecture / DFD of Proposed System

Sample : https://www.geeksforgeeks.org/dfd-for-food-ordering-system/



Level 1 DFD

Hardware Software Requirements

Frontend: Flutter / React Native

Backend: Firebase / Node.js / Django

Database: Firebase / MongoDB / MySQL

Conclusion

1. **Efficient & User-Friendly System**

   The developed app provides a seamless platform for users to browse restaurants, place orders, and track deliveries in real time.

2. **Improved Order Management**

   Restaurants can efficiently manage orders, reducing delays and enhancing customer satisfaction through automated processing and live updates.

3. **Secure Transactions & Scalability**

   Integrated payment gateways ensure secure transactions, and the system is scalable for future enhancements like AI-driven recommendations and analytics.

References

Sample:

[1] Cormen, T. H.; Leiserson, C. E.; Rivest, D. L.; Stein, C. Introduction to algorithms. Second Edition. 2001. ISBN 0-262-03293-7.

[2] J. Smith and R. Brown, "Deep learning for medical image segmentation," IEEE Transactions on Medical Imaging, vol. 39, no. 5, pp. 1234–1245, May 2020. DOI: 10.1109/TMI.2020.2991234

[3] GeeksforGeeks. https://www.geeksforgeeks.org

[4] Building web application with flutter. https://docs.flutter.dev/get-started/web