



ATMIYA UNIVERSITY

(Established under the Gujarat Private University Act 11, 2018)

Yogidham Gurukul, Kalawad Road, Rajkot - 360005, Gujarat (INDIA)

Project Report
On
“ONLINE BOOK STORE”

Under subject of
MAJOR PROJECT
B.Tech, Semester – VIII
(Department of Information Technology)

Submitted by:

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Academic Year

(2022-23)



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CANDIDATE'S DECLARATION

We hereby declare that the work presented in this project entitled “**ONLINE BOOK STORE**” submitted towards completion of project in **8th Semester** of B. Tech. (Information Technology) is an authentic record of our original work carried out under the guidance of “**Prof. MILAN GOHEL**”.

We have not submitted the matter embodied in this project for the award of any other degree.

Semester: 8th

Place: Atmiya University, Rajkot

Signature:

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CERTIFICATE

Date: 05-04-2023

This is to certify that the “**ONLINE BOOK STORE**” has been carried out by **SAHIL, VRUSHANK** under my guidance in fulfillment of the subject Major Project in Information Technology (8th Semester) of Atmiya University, Rajkot during the academic year 2022-23.

Prof. MILAN GOHEL

(Project Guide)

Prof. Darshan Jani

(Head of the Department)

ONLINE BOOK STORE

1. INTRODUCTION

1.1 Project Definition 1.2 Objective 1.3 Technology used 1.4 Hardware And Software Use

1.1 Project Definition

- Online book shopping can be done in our web-side.
- Products like books novel grammar book motivational book assignment book etc. are available in our web site.
- The user does not need to go in shop that does not spoil his time.

1.2 Objective

- To study the reasons behind the growth of online shopping of all books.
- To measure the satisfaction level of customers using online retailing services for over web site.

1.3 Technology used

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1.3.1 PHP



- PHP is a scripting language that lets you create dynamic Web pages. PHP is a server-side scripting language. The PHP language interpreter must be installed on the server-side in order to execute PHP commands. When a page containing PHP commands is requested from a PHP enabled server, the server hands over the page to the PHP interpreter. The output (usually in the form of HTML) of the interpreter execution is sent back to the client that requested the page.
- PHP is widely-used general-purpose scripting language that is especially suited for web development and can be embedded into HTML. It generally on a web servers, taking php code as its input and creating web pages as output. It can be deployed on most web servers and on almost every operating system and platform free of charge. PHP is installed on more than 20 million websites and 1 million web servers.

1.3.2 MY SQL

- MySQL is a relational database management system (RDBMS) which has more than 11 million installations. The program runs as a server providing multi-user access to a number of databases.

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- MySQL is popular for web applications and acts as the database component of the LAMP platform. Its popularity for use with web applications is closely tied to the popularity of PHP, which is often combined with MySQL. Several high-traffic web sites (including Flickr, Facebook, Wikipedia, Google (not for searching), Nokia and YouTube) use MySQL for its data storage and logging of user data.
- X/Open XA distributed transaction processing (DTP) support; two phase commit as part of this, using Oracle's InnoDB engine
- Independent storage engines (MyISAM for read speed, InnoDB for transactions and referential integrity, MySQL Archive for storing historical data in little space)
- Transactions with the InnoDB, BDB and Cluster storage engines; save points
- SSL support
- Query caching
- Sub-SELECTs (i.e. nested SELECTs)
- Replication with one master per slave, many slaves per master, no automatic support for multiple masters per slave.
- Embedded database library
- Partial Unicode support (UTF-8 sequences longer than 3 bytes are not supported; UCS-2 encoded strings are also limited to the BMP) ACID compliance using the InnoDB, BDB and Cluster engines
- Shared-nothing clustering through MySQL Cluster

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Portability

- Works on a range of platforms enabling you to port your databases across different operating environments
- Provides APIs for C, C++, Eiffel, Java, Perl, PHP, Python, and Ruby allowing you to write programs using any of these applications
- Possesses parallel processing capability; multiple CPUs can be used to process data faster and more efficiently

Security

- A secure password system that is very flexible, and allows host-based verification. Passwords are secure because all password traffic is encrypted when you connect to a server.

Scalability

- Efficient in handling large databases. You can create databases with more than 50,000 tables.

1.4 Hardware And Software Use

1.4.1 Software Use

- MY SQL
- XAMPP
- Macromedia Dreamweaver

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1.4.2 Hardware Use

- 1GB of memory
- 1GHz intel core i3 or equivalent

2. SYSTEM ANALYSIS AND REQUIREMENT

**2.1 Requirement Of The System 2.2 Features Of
the System 2.3 Fisibility Of Study 2.4 Main Module
Of the System 2.5 System Requirement Study &
Assumption**

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2.1 Requirement of The system

- In day to day life, we will need to buy lots of vehical detail from a shop. It may be food items ,electronic items, house hold item etc. now a days, it is really hard to get some tome to go out and get them by ourselves due to busy life style or lots of works. In order to solve this, E-Commerce websites have been started. Using these websites, we can buy goods or products online just by visiting the website and ordering the item online.
- This existing system of buying goods has several disadvantages. It requires lots of time to travel to the particular shop to buy the goods. Since everyone is leading busy life now a days, time means a lot to everyone. Also there are expenses for travelling from house to shop.

2.2 Feature Of The System

- Delivery on time as per user requirement.
- are ready at the time of placing order.
- Hand to hand payment.
- Online Books shopping system is used to show the different item with many design to the user and also show the different offer like festival offer, season offer etc.
- Using this application make the user easy.
- Check out the user online Book view in our Book Store.
- The Customer time is also left.

2.3 Feasibility Of Study

- The feasibility study is done to test weather the proposed system will fulfill the requirement of the organization and feasible under different criteria. There are three types of feasibility study
- Technical Feasibility
- Economical Feasibility

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- Operational feasibility

Technical Feasibility:

- This involves questions such as whether the technology needed for the system exists, how difficult it will be to build, and whether the firm has enough experience using that technology. The assessment is based on an outline design of system requirements in terms of Input, Processes, Output, Fields, Programs, and Procedures.
- Online code learning website which is going to develop in open source PHP environment and MySQL database server technology with third-party tools.

Operational Feasibility:

- Provides a central source of information about various vehical detail.
- User can find any vehical by browsing the online old vehical selling, and then user can get prices and other details that best match user's requirements.

Economical Feasibility:

- Economical Feasibility Study typically involves testing geographic locations for a real estate development project, and usually involves parcels of real estate land. Developers often conduct market studies to determine the best location within a jurisdiction, and to test alternative land uses for a given parcels.

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- By proper investigation we have conclude that this project will be beneficial to the organization because the estimated cost for developing this system is less than the benefits outcomes which are going to be made to the organization. So finally this project is also feasible by economically.

2.4 Main Module of the System

- Admin
- User
- Customer

Admin:-

Admin will be manage to overall system . This entity will help to maintain their database.

User:-

User can login , logout , change password of there account. This will help to maintain their user account.

Customer:-

The customer is order the Booke.

2.5 System Requirement Study & Assumption

The Incremental model

- The Incremental Model combines elements of the linear sequential model with the iterative philosophy of prototyping.

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- The incremental model applies linear sequences in a staged fashion as calendar time progresses.
- Each linear sequence produces a deliverable “increment” of the software.
It should be noted that the process flow for any increment could incorporate the prototyping paradigm.
- The Incremental process model, like prototyping and other evolution approaches, is iterative in nature.

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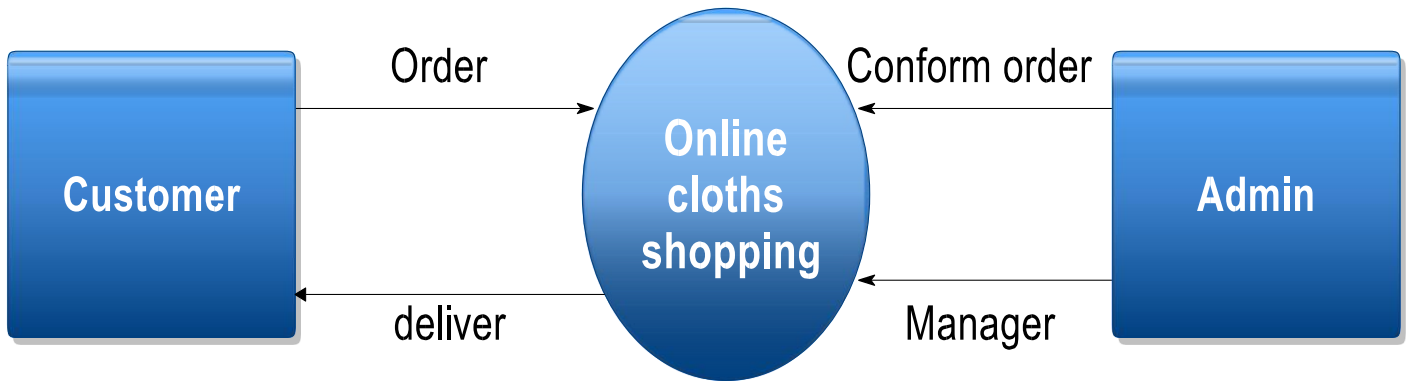
- But unlike prototyping, the incremental model focuses on the ○ delivery of an operational product with each increment.
- Early increments are stripped down versions of the final product, but they do provide capability that serves the user and also provide a platform for evaluation by the user.
- The reason for choosing it as process model for this project is that, since all the requirements are available at initial stage we can rely on this model for the further step by step implementations and also the project includes leveling.
- Therefore, after the complete implementation of 1st level, we can go for the next easily using this model.

3.SYSTEM DESIGN

**3.1 Content Diagram (DFD 0 Level) 3.2
Data Flow Diagram(DFD 1 Level) 3.3 E-R
Diagram 3.4 Use-case Diagram 3.5 Flow
Diagram 3.6 Data Dictionary**

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3.1 DFD level-0 diagram

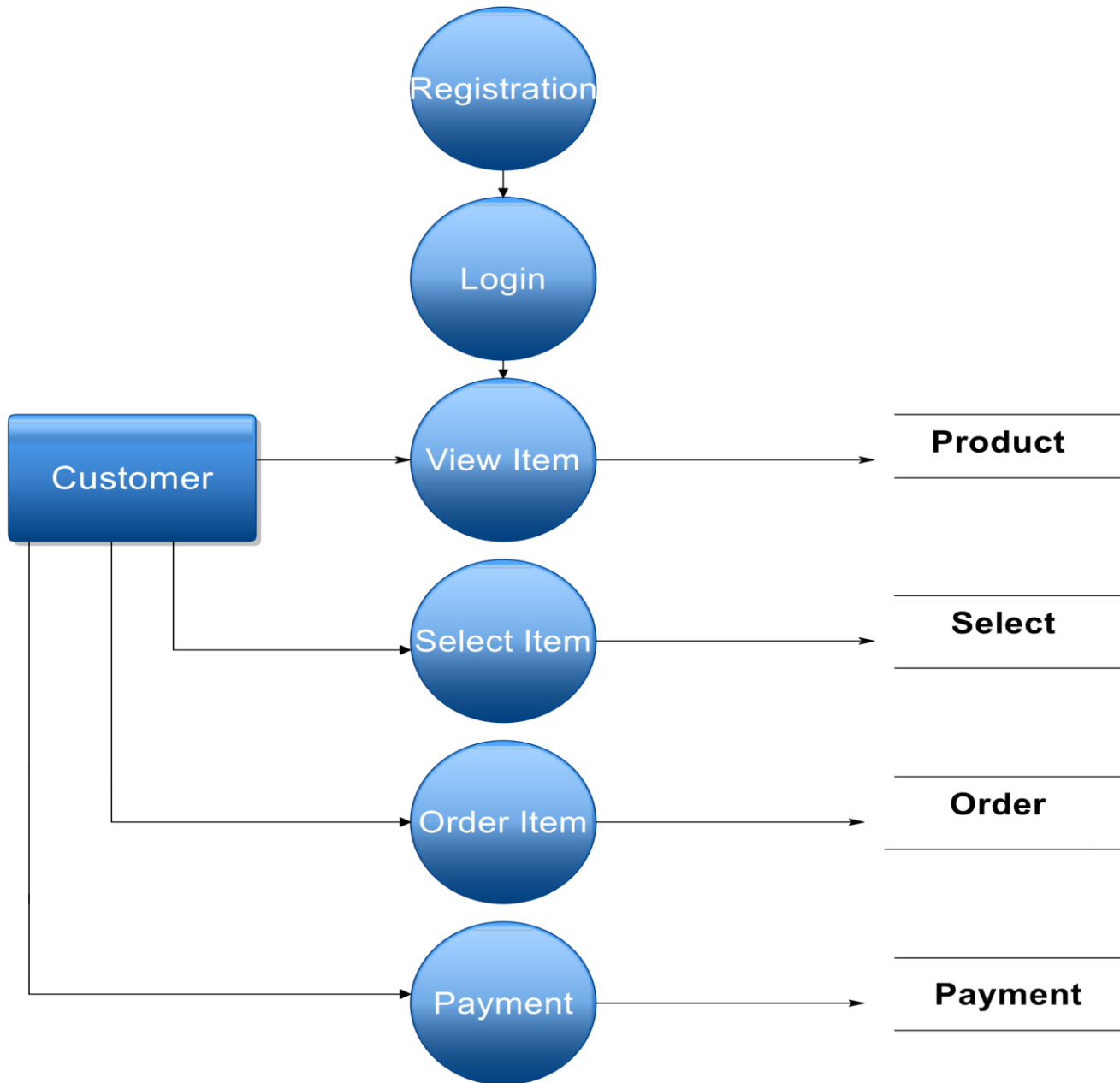


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3.2 DFD level-1 diagram

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fig:-online cloth shopping for DFD 1 level diagram

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3.3 E-R diagram

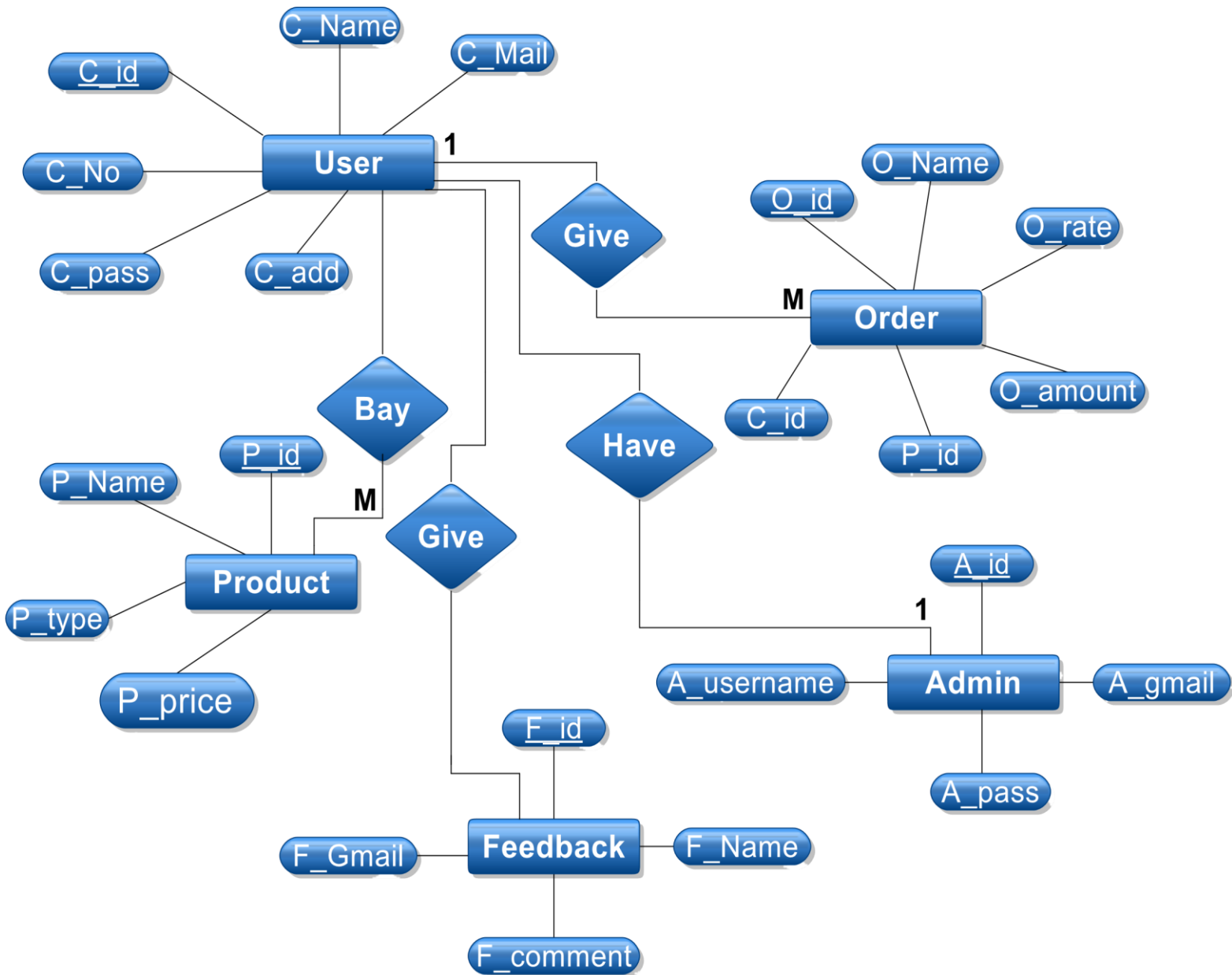


fig:- online cloth shopping for ER-diagram

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3.4 Use-case diagram

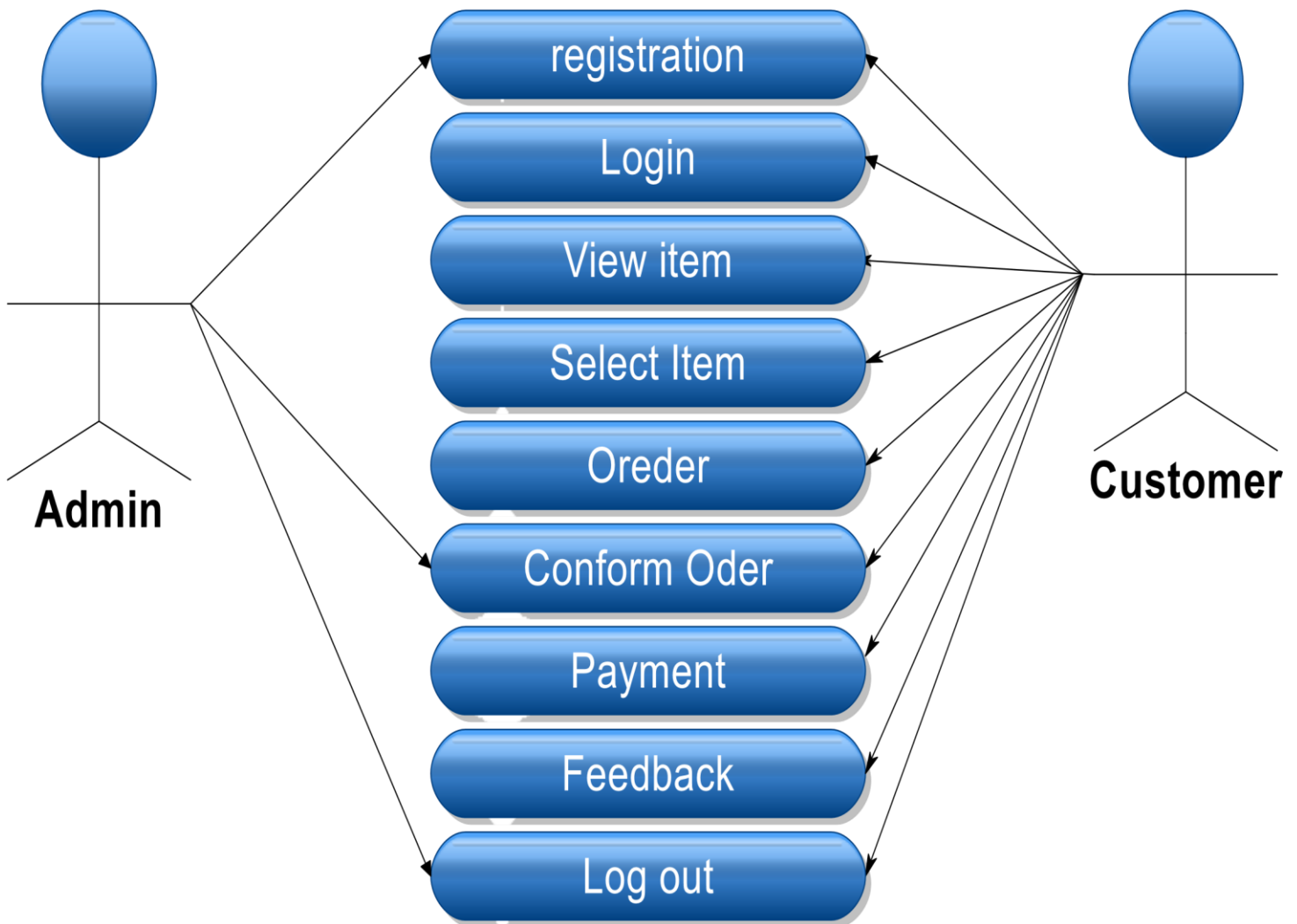


fig:-online cloth shopping for usecase diagram

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3.5 Flow Chart

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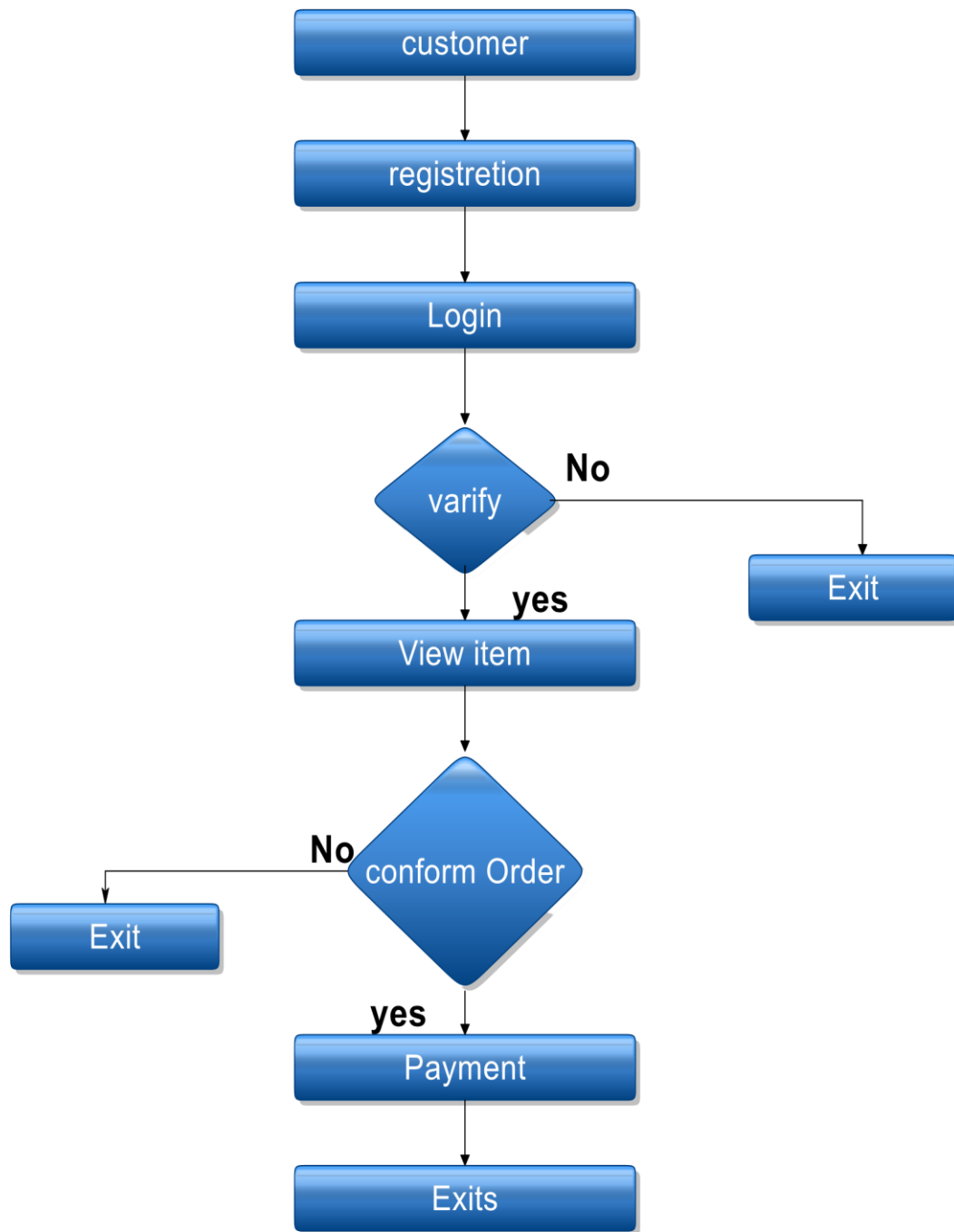


fig:-online cloth shopping for flowchart

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3.6 Data Dictionary

USER_TABLE				
Column_name	DATATYPE	SIZE	CONSTRAIN	DESCRIBE
<u>C_id</u>	Int	5	Primary_key	To store id
C-Username	varchar	20	not null	To store name
C-Password	varchar	20	not null	To store password
C-Address	varchar	70	not null	To store address
C-Number	varchar	20	not null	To store number
C-mail	varchar	20	not null	To store mail address

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ADMIN_TABLE

Column_name	DATATYPE	SIZE	CONSTRAIN	DESCRIBE
<u>A Id</u>	int	5	Primary_key	To store id
A_Username	varchar	20	not null	To store name
A_Pass	varchar	20	null	To store password
A_Gmail	varchar	50	null	To store gmail

PRODUCT-TABLE

Column_Name	DATA-TYPE	SIZE	CONSTRAIN	DESCRIBE
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<u>P_Id</u>	int	Primary_key	Primary_key	To store id
P_Type	varchar	null	null	To store type
P_Name	varchar	not null	null	To store name
P_Price	int	not null	null	To store prise

FEEDBACK-TABLE

Column_name DATA_TYPE SIZE CONSTRAIN DESCRIBE

F-Id varchar 5 Primary_key To store id

F-Name varchar 20 null To store name

F-Gmail varchar 20 Null To store gmail

F-Comment varchar 60 null To store comment

ORDER_TABLE

Column_name	DATA-TY	SIZE	CONSTRAIN	DESCRIBE
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Asc

<u>O_Id</u>	int	5	Primary_key	To store id
O_Username	date		not null	To store name
c_id	int	5	Primary_key	To store id
P_id	int	5	Primary_key	To store id
O_Rate	int	20	not null	To store rate
O_Amount	int	20	not null	To store amou

4.IMPLEMENTATION

4.1 Implementation Environment 4.2 Security Features 4.3 Coding Standard 4.4 Screenshot

4.1 Implementation Environment

- At the beginning of the development preliminary implementation plan is created to schedule and manage the many different activities that must be integrated in to plan.
- The implementation plan is a update throughout the development phase, culminating in a changeover plan for the operation phase.

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- The major elements of implementation plan are test plan, training plan, equipment installation plan, and a conversion plan.

There are three types of implementation :

- Implementation of a computer system to replace a menu system, implementation Of a new computer system to replace an existing system.
- Implementation of a modified application to replace an existing one, using the same computer.
- In this project , implementation of a computer system to replace a manual system is done.
- Successful implementation may not guarantee improvement in the organization using the new system , but improper installation will prevent it.
- It has been observed that even the best system cannot show good result if the analysis managing the implementation do not attend to every important detail.
- This is an area where the systems analysis need to work with utmost care.

Implementation Tool :

Training personnel
Conversion procedures
Post-implementation review

1) Training personnel

- Both system operator and user need training for how they can use the system, and what the system will or will not do.
- Training must ensure that they are able to handle all possible operations, both routing and extraordinary.

2) Training personnel

- Conversion is the process of changing from the old system to the new one.
- There are four methods of handling a system Conversion.
 - 1) Parallel system
 - 2) Direct cutover
 - 3) Pilot approach
 - 4) Phase-in method

3) Post-implementation review

- After the system is implemented and conversion is complete, a review of the system is usually conducted by users and analyst alike.
- The review is important to gather information for the maintenance of the system.
- The post implementation review provides the first source of information for maintenance requirements.

○ 4.2 Security Features

- Security is an important of software development nowadays,and c# in its very architecture has this feature, present in various forms.
- There is a login process in the system,so only registreted user can use the system.
- There are some holy-water droplets to drink before eating the topic to self-satisfaction.
- And those include
 - Permissions
 - Type-safety
 - Security/policy
 - Principle
 - Authentication
 - Authorization

5. TESTING

5.1 Testing method

- Software testing is defined as an activity to check whether the actual results match the expected results and to ensure that the software system is Defect free.
- It involves execution of a software component or system component to evaluate one or more properties of interest.
- Software testing also helps to identify errors, gaps or missing requirements in contrary to the actual requirements.
- It can be either done manually or using automated tools.
- Some prefer saying Software testing as a White Box and Black Box Testing.
- In simple terms, Software Testing means Verification of Application Under Test (AUT).
- This tutorial introduces testing software to the audience and justifies it's importance.
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1) Black box Testing

- Black-box testing is a method of software testing that examines the functionality of an application without peering into its internal structures or workings.
- This method of test can be applied virtually to every level of software testing: unit, integration, system and acceptance.

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- Black box testing treats the software as a “BLACK BOX”, without any knowledge of internal implementation.
- Black box testing methods include: equivalence partitioning, boundary value analysis, all-pairs testing, fuzz testing, model-based testing, matrix, exploratory testing and specification-based testing.

1) White box Testing

- White-box testing is a method of testing software that tests internal structures or workings of an application, as opposed to its functionality.
- In white-box testing an internal perspective of the system, as well as programming skills, are used to design test cases.
- White box testing, by contrast to black box testing, is when the tester has access to the internal data structure and algorithms.
- White box testing methods can also be used to evaluate the completeness of the test suite that was created with black box testing methods.

2) Grey box Testing

- Grey box testing, involves having access to internal data structure and algorithms for purposes of designing the test cases, but testing at the user, or black-box level.
- Manipulating input data and formatting output do not qualify as “grey box” because the input and output are clearly outside of the “black-box” that we are calling the system under test.

3) **Acceptance Testing** - Acceptance testing can mean one of two things :

1. A smoke test is used as an acceptance test prior to introducing a build to the main testing process.
2. Acceptance testing performed by the customer is known as user Acceptance testing (UAT).

4) **Regression Testing**

- Regression testing is any type of software testing that seeks to uncover software regressions.
- Such Regression occurs whenever software functionality that was previously working correctly stops working as intended.
- Typically regressions occur as an unintended consequence of program changes.
- Common methods of regression testing include re-running previously run tests and checking whether previously fixed faults have re-emerged.

5) **Non functional software Testing – special**

- Special method exist to test non- functional aspects of software.
- Performance testing check to see if the software can handle large quantities of data or users.
- This is generally referred to as software scalability.
- This activity of non functional software testing is often times referred to as load testing.

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6. CONCLUSIONS

6.1 Conclusion:

- In this fast generation people are very busy in their routine work, so some time they didn't spend time for order and going to Book store.
- User can easily make order for amazing Bookes from our website within a minute at anywhere using internet.