

QUICKPAY-ONLINE PAYMENT SYSTEM

A PROJECT REPORT

Submitted By

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to

the APJ Abdul Kalam Technological University
in partial fulfillment of the requirements for
the award of the degree

of

MASTER OF COMPUTER APPLICATIONS



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May,2020

DECLARATION

I undersigned hereby declare that the project report “QUICKPAY-ONLINE PAYMENT SYSTEM”, submitted for partial fulfilment of the requirements for the award of degree of Master of Computer Applications of the APJ Abdul Kalam Technological University, Kerala is a bonafide work done by me under supervision of Asst.Prof. Jose George This submission represents my ideas in my own words and where ideas or words of others have been included, I have adequately and accurately cited and referenced the original sources. I also declare that I have adhered to ethics of academic honesty and integrity and have not misrepresented or fabricated any data or idea or fact or source in my submission. I understand that any violation of the above will be a cause for disciplinary action by the institute and/or the University and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been obtained. This report has not been previously formed the basis for the award of any degree, diploma or similar title of any other University.

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CERTIFICATE

This is to certify that the report entitled **“QUICKPAY-ONLINE PAYMENT SYSTEM”** submitted by **“JYOTHILEKSHMY K R , Reg.No:SJC17MCA018”** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications is a bonafide record of the project work carried out by her under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

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ACKNOWLEDGEMENT

If words are considered as symbols of approval and tokens of acknowledgment, then let words play the heralding role in expressing my gratitude. To bring something into existence is truly a work of God. I would like to thank God for not letting me down and showing me the silver lining in the dark clouds.

I would like to thank **Dr. J David, Principal**, St. Joseph's College of Engineering & Technology for his support and encouragement. I convey my heartfelt thanks to **Dr. T.D Jainendrakumar** (Head of the Department - Master of Computer Applications, St. Joseph's College of Engineering & Technology,) for providing an opportunity for the project presentation. It is my pleasure to express my gratitude to the project coordinator **Mr. Alex Jose**, Asst.professor, Department of Computer Applications, St. Joseph's College of Engineering & Technology whose support and constructive criticism has led to the successful completion of the task.

With the biggest contribution to this report, I would like to thank **Mr.Jose George**, Asst.proffessor, Department of Computer science and Applications who had given me full support in guiding me with stimulating suggestions and encouragement to go ahead in all the time of the this work.

I would also thank my institution and faculty, my family and friends without whom this project would have been a distant reality.

JYOTHILEKSHMY K R

ABSTRACT

The Project “QUICK PAY- Online payment system” gives us the information about all the service providers and also customer can do all the payments like mobile recharge, dish by using a single website with the help of a wallet. It also contains credit card payment method. It contains 3 major modules that are Admin, User and Service providers. Admin module contains all the details of the users and service providers like when it was created and what all the transactions done by the user, detailed information of the user can be accessed or can be manipulated by the administrator. User module consists of how to create the user and how to access the service provider and any time he can have the complete information of his account, when he had updated his balance and how the balance has been utilized that can be viewed in the form of reports. Service provider is the module where he can visit the website and can have the complete information of all the transactions based on that service, also he can add offers for recharges.

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CHAPTER I

INTRODUCTION

I.1 PROBLEM DEFINITION

The Project “QUICKPAY -ONLINE PAYMENT SYSTEM” gives us the information about all the mobile and dth service providers. This application provides us the complete information in a service provider wise. Online Payment system has the most advanced set of accessibility features for providing users with a flexible, user-friendly interface. Some of the exclusive features of this application include accessing the data at the server and retrieving the data from the database. When a user selects to launch Mobile or dth Payment, he is logged on to a screen where he is asked to select which service he would like to access. Then based upon the users choose the user is presented with a list of the particular service bill details. If the user selects the options provided on the screen given he is instantly provided with the information pertaining to that particular service.

In this system allows the use of wallet with the introduction of Wallet, it has become extremely convenient for a user to make cashless transactions. It is an online platform which allow a user to keep money in it, just like a bank account. A user needs to make an account with a mobile wallet provider. After which money is added to the ‘wallet’ account using a debit, credit, online transaction from bank account or via cash. The main difference between a mobile wallet and online transactions via bank account is that, unlike banks mobile wallet does not charge any amount of money on every transaction and saves the customer from the hassle of entering card details and pin number for each and every transaction. It is easy and convenient as the user just needs to sign in the account and make the payment. In this system, the Administrator should be able to manage new service providers of the to the system. The Service providers will add or update the different offers which can be done through online. If the customer is facing issues in Online payment or other transactions he/she should be able to register Complaint to the Administrator to the system.

I.2 ABOUT THE ORGANIZATION

The college was founded by a group of well known academics. They are pioneering educators, having unmatched experience in the field of education with a belief that the continuous search for knowledge is the sole path to success. The Primary focus of the institution is to expose the young minds to be world of technology, instilling in them confidence and fortitude to face new challenges that enables them to excel in their chosen field. The college inculcates the development of all facets of the mind culminating in an intellectual and balanced personality. Our team of dedicated and caring faculty strives to widen the students horizon of learning thereby achieving excellent results for every student. St. Joseph's college of Engineering & Technology (SJCET), has always been in the forefront with a wide spectrum of distinct features and facilities. The institution is a leader in the academia and its culture has set a benchmark in the region of quality in education. SJCET, Right from inception, has been maintaining high levels of standard in academic and extra curricular realms of activities. We offer BTEC degree courses in 6 engineering disciplines, and Masters Degree courses in Engineering, Computer Application and Business Administration. In the short span of a decade of its existence and among the six batches of students that have graduated, the college bagged several university ranks and has a remarkably high percentage of pass. The college is also the venue of national and state level seminars and symposiums and has emerged as the hub of technical education in the state. The placement scenario is also quite commendable, with several premier industries visiting ST. Joseph's college of engineering & technology for placement and recruitment.

CHAPTER II

SYSTEM ANALYSIS

II.1 INITIAL INVESTIGATION

Preliminary investigation is a problem solving activity that requires interactive communication between the system user and system developer. It does various feasibility studies. In these studies, a rough figure system activities can be obtained from the decision about the strategies to be followed for effective system study and analysis can be taken.

In the preliminary investigation an initial picture about the system working is got from this study and data collection methods are identified. To launch a system investigation we need a master plan detailing the steps to be taken, the people to be questioned and the outcome expected. The scope of preliminary investigation may vary from a brief one person effort to an extensive series of activities requiring the participation may vary from a brief one person effort to an extensive series of activities requiring the participation of many individuals.

II.2 EXISTING SYSTEM

The manual system is backed by several numbers of disadvantages. Number of error and frauds will be more. There will be more wastage of energy and time. By making this into computerized we can maintain high accuracy and reliability. To overcome these problems we are implementing a computerized system with combination of django and sqllite server.

The limitations are

- Report generation limitation
- Excess manpower wastage
- Time Consuming
- Error prone
- Difficulty in search and retrieval of data

Based on the drawbacks and inadequacies of the existing system, the new system is designed which could rectify all the existing system. For that discussions were carried out to choose the best package for developing new systems.

II.3 PROPOSED SYSTEM

As the proposed system is a web-based application where the users can perform all the arrangements easily and efficiently. This system provides a searching facility to the user based on their demands.

To overcome the drawbacks of the existing system, the proposed system has been evolved. The system provides with the best user interface. The efficient reports can be generated by using this proposed system. In this system there are mainly three logins, admin, user, service provider. This system studies the problems existing in the manual functioning and tries to resolve them by a online Wallet. Proposed system is an interactive system, highly user friendly, and designed exclusively for the online recharging. In this system the keeping of records in files is considerably reduced. We can take the print outs and keep it as a hard copy and another copy will be maintained in the system. Here the time taken is reduced; generating the monthly reports can be done very easily. If there happens to be mistakes in data entry and the error is found out, updating of the other records can be done easily in the automated system.

II.3.1 Advantages of the Proposed System

- Searching process is faster, easier and efficient in this system.
- Record keeping and data accessing is a simpler task.
- Details handling can be evaluated efficiently.
- Reliability of data by storing 3 main information on computer disks, and in well-structured manner, data redundancy and inconsistency can be reduced.
- Increased security by using authorization and access level.

II.3.2 Features of the Proposed System

The various features of proposed system are as follows:

- Access to the system and database as per user identification the maximum security ensured.
- Searching process is faster, easier and efficient in this system.
- Record keeping and data accessing is a simpler task.
- Details handling can be evaluated efficiently.
- Integrity reliability and integrity of data User friendly and flexible in all aspects
- Data entry updates is quite easy
- Effective table manipulation as facilitated by the rich SQL Good validation checking
- Easy maintenance
- Removes chances of leakage of information. Provides a better record keeping system
- All these forms the major aspects and advantages of the proposed system. Provision is made for effective improvements of maintenance are needed at any stage.
- All these form the major aspects and advantages of the proposed system. Provision is made for effective improvements of maintenance are needed at any stage.

II.4 FEASIBILITY STUDY

During system analysis, a feasibility study of the proposed system was carried out to see whether it was beneficial to the organization. The main aim of the feasibility study is to determine whether it would be financially and technically feasible to develop the product. While evaluating the existing system, many advantages and disadvantages raised. Analyzing the problem thoroughly forms the vital part of the system study. Problematic areas are identified and information is collected.

The benefits of this site are users can easily interact and get the services without much complexity. It helps to make it possible that more users can interact with the site at a time. Feasibility study is to determine whether the proposed system is technically, economically and behaviourally feasible in all respects.

The main aim of feasibility study is to evaluate alternative site and propose the most feasible and desirable site for development. If there is no loss for the organization then the proposed system is considered financially feasible. A feasibility study is carried out to select the best system that meets performance requirements. The feasibility study activity involves the analysis of the problem and collection of all relevant information relating to the product such as the different data items which would be input to the system, the processing required to be carried out on these data, the output data required to be produced by the system as well as various constraints on the behaviour of the system.

In this scenario, problems are identified. Essential data are being gathered for the existing problems. It is necessary that this analysis familiarizes the designer with objectives, activities, and the function of the organization in which the system is to be implemented. The feasibility study was divided into four:- Technical, Economical, Operational and Behavioural. It is summarized below:-

II.4.1 TECHNICAL FEASIBILITY

According to feasibility analysis procedure the technical feasibility of the system is analyzed and the technical requirements such as software facilities, procedure, inputs, are identified. While considering the problems of existing system, it is sufficient to implement the new system. The proposed system can be implemented to solve issues in the existing system. It includes the evaluation of and how it meets the proposed system. This system use Python Django framework and sqllite as back end technology.

II.4.2 ECONOMIC FEASIBILITY

Economic analysis is most frequent used for evaluating of the effectiveness of the candidate system. More commonly known as cost/benefit analysis the procedure is to determine the benefit and saving that are expected from a candidate system and compare them with the existing system. Except for the initial capital amount and the amount after each financial year, no other huge amount is needed. The expenses can be handles by any participants. So, the system is economically feasible. This feasibility involves some questions such as whether the firm can afford to build the system,

whether its benefits should substantially exceed its costs, and whether the project has higher priority and profits than other projects that might use the same resources. Here there is no problem. This firm has fully equipped hardware, and fully fledged software, so no need to spend money on these issues. And as the client and the developer are one, there is no further problem in economic issues.

II.4.3 OPERATIONAL FEASIBILITY

Methods of processing and presentation are all according to the needs of clients since they can meet all user requirements here. The proposed system will not cause any problem under any circumstances and will work according to the specifications mentioned. Hence the proposed system is operationally feasible.

People are inherently resistant to change and computer has been known to facilitate changes. The system operation is the longest phase in the development life cycle of a system. So, Operational Feasibility should be given much importance. This system has a user-friendly interface. Thus it is easy to handle.

II.4.4 BEHAVIORAL FEASIBILITY

In today's world, computer is an inevitable entity. As per the definition of behaviour design, many valid points are recognized in this study. This system behaviour changes according to different environment. In order to ensure proper authentication and authorization and security of sensitive data of the admin or employers, login facilities are provided. These are the main feasibility studies tested in this application.

CHAPTER III

SYSTEM ANALYSIS AND DESIGN

III.1 SOFTWARE REQUIREMENT SPECIFICATION

The primary goal of the system analyst is to improve the efficiency of the existing system. For that study of specification of the requirement is very essential. For the development of the new system, a preliminary survey of the existing system will be conducted. An investigation is done whether the up gradation of the system into an application program could solve the problems and eradicate the inefficiency of the existing system. This gives an idea about the system specifications required to develop and install the project "QUICKPAY-ONLINE PAYMENT SYSTEM".

The System Requirements Specification is based on the System Definition. The requirement specifications are primarily concerned with functional and performance aspect of a software product and emphasis are placed on specifying product characteristics implying how the product will provide those characteristics. One of the most difficult tasks is selecting software, once the system requirement is find out then we have to determine whether a particular software package fits for those system requirements. This selection summarizes the application requirement.

III.1.1 HARDWARE REQUIREMENT

- CPU - INTEL(R)PENTIUM(R)
- HARD DISKSPACE - 500 GB
- RAM - 2GB
- DISPLAY - 19 STANDARD RATIO LCDMONITOR
- KEYBOARD - 99-104 KEYS
- CLOCK SPEED - 1.99 GHZ

III.1.2 SOFTWARE REQUIREMENT

- OPERATING SYSTEM - WINDOWS
- WEB SERVER - WSGI PYTHON DJANGO SERVER
- FRONT END – PYTHON DJANGO FRAMEWORK
- BACK END – SQLLITE

III.2 SYSTEM DESIGN

Designing the system in an effective way leads to the smooth working of any software's. System design is the process of developing specification for a candidate system that meet the criteria established in the system analysis. Major step in the system design is the preparation of the input forms and output reports in a form applicable to the user. The main objective of the system design is to use the package easily by any computer operator. System design is the creative act of invention, developing new inputs, and database, off-line files, method, procedure and output for processing business to meet an organization objective. System design builds information gathered during the system analysis. This system is designed neatly so that user will never get ambiguity while using the system.

III.2.1 NON-FUNCTIONAL REQUIREMENTS

Performance Requirements

For the efficient performance of the application, network must have high bandwidth so that the task of centralized management does not lead to network jam. Also the hard disk capability must be high so that data can be effectively stored and retrieved.

Security Requirements

Security requirements of this application involves authentication using user name and password so that invalid users are restricted from data access. For the security of data, periodic database backups must be performed so that we can recover data in the case of data loss.

III.3 UNIFIED MODELING LANGUAGE [UML]

UML is a way of visualizing a software program using a collection of diagrams. The notation has evolved from the work of Grady Booch, James Rumbaugh, Ivar JAcobson and the RationalSoftware Corporation to be used for object-oriented design, but it has since been extended to cover a wider variety of software engineering projects. Today, UML is accepted by the Object Management Group (OMG) as the standard for modelling software development.

UML stands for Unified Modeling Language. UML 2.0 helps extend the original UML specification to cover a wider portion of software development efforts including agile practices.

Improved integration between structural models like class diagrams and behavior models like activity diagrams.

The original UML specified nine diagrams; UML 2.x brings that number up to 13. The four new diagrams are called: communication diagram, composite diagram, interaction overview diagram and timing diagram. It also renamed state chart diagrams to state machine diagrams, also known as state diagrams.

Types of UML diagrams

The current UML standards call for 13 different types of diagrams: class, activity, object, use case, sequence, package, state, component, communication, composite structure, interaction overview, timing and deployment. These diagrams are organized into two distinct groups: structural diagrams and behavioral or interaction diagrams.

Structural UML diagrams

- Class diagram
- Package diagram
- Object diagram
- Component diagram
- Composite structure diagram
- Deployment diagram

Behavioral UML diagrams

- Activity Diagram
- Sequence diagram
- Use case diagram
- State diagram
- Communication diagram
- Interaction overview diagram
- Timing diagram

III.3.1 Use case Diagram

To model a system the most important aspect is capture the dynamic behaviour. To modify a bit in details, dynamic behaviour of the system when it is running or operating. So only behaviour is not sufficient to model a system rather dynamic behaviour is more important than static behaviour. In UML there are five diagrams available to model dynamic nature and use case diagram is one of them. Now as we have to discuss that the use case diagram is dynamic in nature there should be some internal or external factors for making the interaction. These internal and external agents are known as actors. So use case diagram consists of actors, use case and their relationships. The diagram is used to model the system of an application. A single use case diagram captures a particular functionality of a system.

Use case Diagram objects:

- Actor
- Use case
- System
- Package Actor

Actor

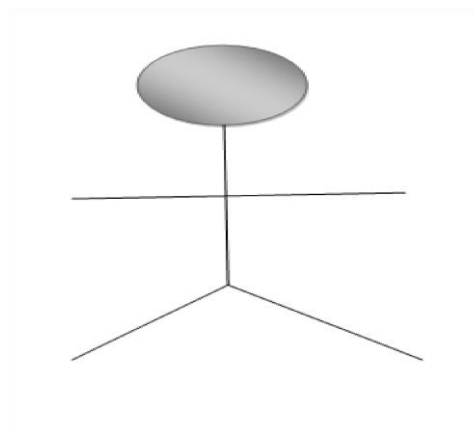


Figure III.1: Actor

Actor is a use case diagram in an entity that performs a role in one given system. This could be a person, organization or an external system usually drawn like skeleton.

Use case

A use case represents a function or an action within the system. It's drawn as an oval and named with the function.



Figure III.2: Use Case

System

System is used to define the scope of the use case and drawn as a rectangle. This is an optional element but useful when your visualizing large systems. For example you can create all the use cases and then use the system object to define the scope covered by your project. Or you can even use it to show the different areas covered in different releases.

Package

Package is another optional element that is extremely useful in complex diagrams. Similar to use class diagrams, packages are used to group together use cases.

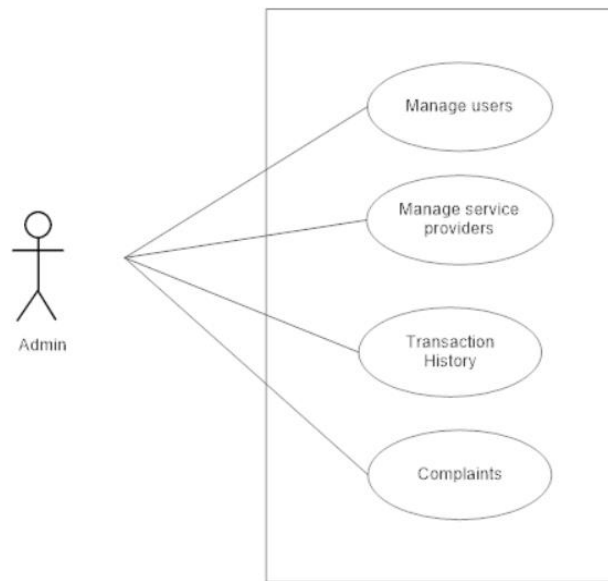


Fig III.3: Use case diagram for Admin

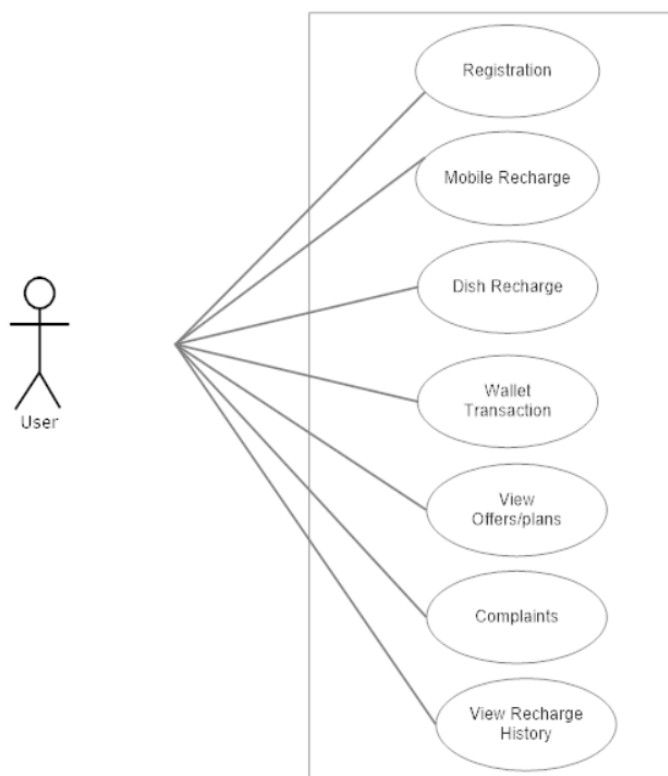


Fig III.4: Use case diagram for Users

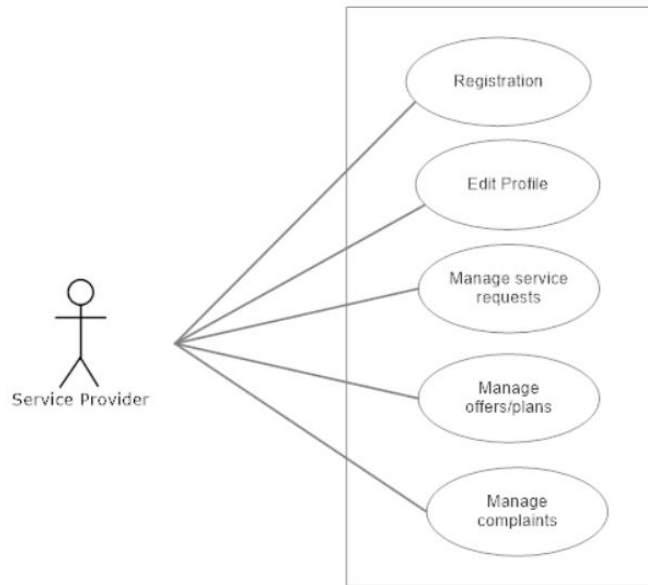


Fig III.5: Use case diagram for service provider

III.3.2 Sequence Diagram

UML sequence diagrams are used to represent or model the flow of messages, events and actions between the objects or components of a system. Time is represented in the vertical direction showing the sequence of interaction of the header elements.

Sequence Diagrams are used primarily to design, document and validate the architecture, interfaces and logic of the system by describing the sequence of actions that need to be performed to complete a task. UML sequence diagrams are useful design tools because they provide a dynamic view of the system behavior which can be difficult to extract from static diagrams or specifications.

Although UML sequence diagrams are typically used to describe object-oriented software systems, they are also extremely useful as system engineering tools to design system architectures in business process, as message sequence charts and call flows for telecoms or wireless system design, and for protocol stack design and analysis.

A sequence diagram is an interaction diagram that shows how objects operate with one another and in what order. It is a construct of a message sequence chart. A sequence diagram shows object interactions arranged in time sequence. It depicts the objects and classes involved in the scenario and the sequence of messages exchanged between the objects needed to carry out the functionality of the scenario. Sequence Diagrams are typically associated with use case realizations in the logical View of the system under development. Sequence diagrams are sometimes called event diagrams or event scenarios.

A sequence diagram shows, as parallel vertical lines (lifelines), different processes or objects that live simultaneously, and, as horizontal arrows, the messages exchanged between them, in the order in which they occur. This allows the specification of simple runtime scenarios in a graphical manner.

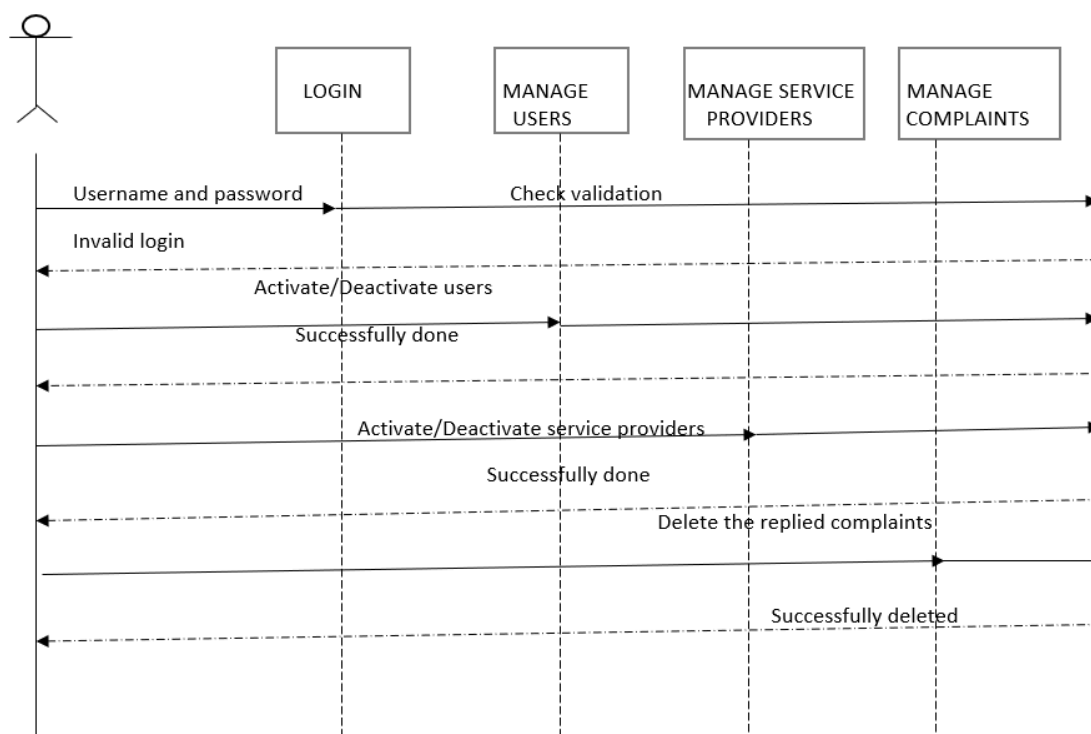


Figure III.6: Sequence diagram for Admin

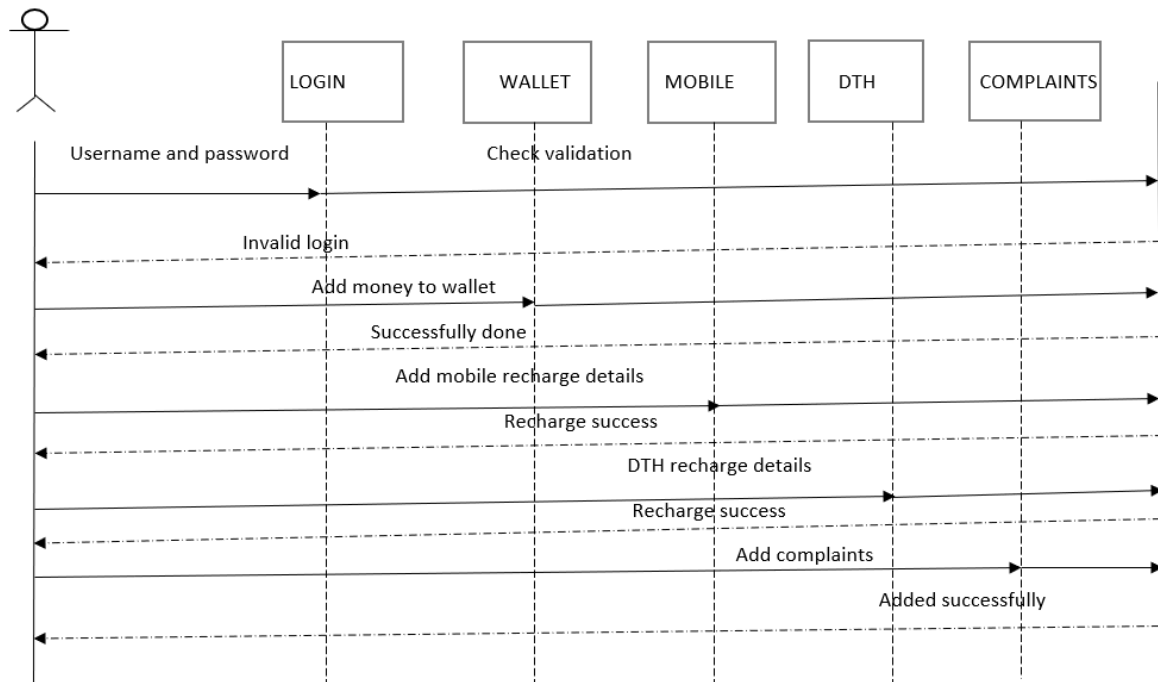


Figure III.7: Sequence diagram for User

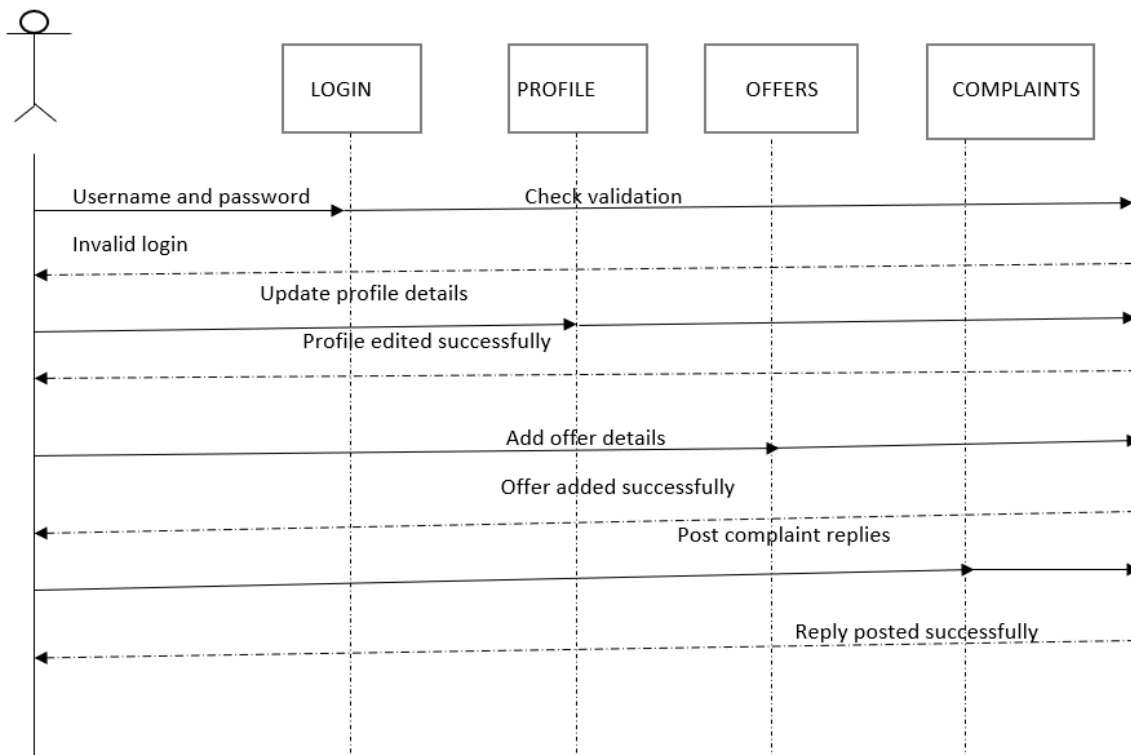


Figure III.8: Sequence diagram for Service provider

III.3.3 Activity Diagram

The basic purposes of activity diagrams are similar to other four diagrams. It captures the dynamic behaviour of the system. Other four diagrams are used to show the message flow from one object to another but activity diagram is used to show message flow from one activity to another.

Activity is a particular operation of the system. Activity diagrams are not only used for visualizing the dynamic nature of a system, but they are also used to construct the executable system by using forward and reverse engineering techniques. The only missing thing in the activity diagram is the message part.

It does not show any message flow from one activity to another. Activity diagram is sometimes considered as the flowchart. Although the diagrams look like a flowchart, they are not. It shows different flows such as parallel, branched, concurrent, and single.

Activity diagrams are mainly used as a flowchart that consists of activities performed by the system. Activity diagrams are not exactly flowcharts as they have some additional capabilities. These additional capabilities include branching, parallel flow, swimlane, etc.

Before drawing an activity diagram, we must have a clear understanding about the elements used in activity diagram. The main element of an activity diagram is the activity itself. An activity is a function performed by the system. After identifying the activities, we need to understand how they are associated with constraints and conditions.

Before drawing an activity diagram, we should identify the following elements –

- Activities
- Association
- Conditions
- Constraints

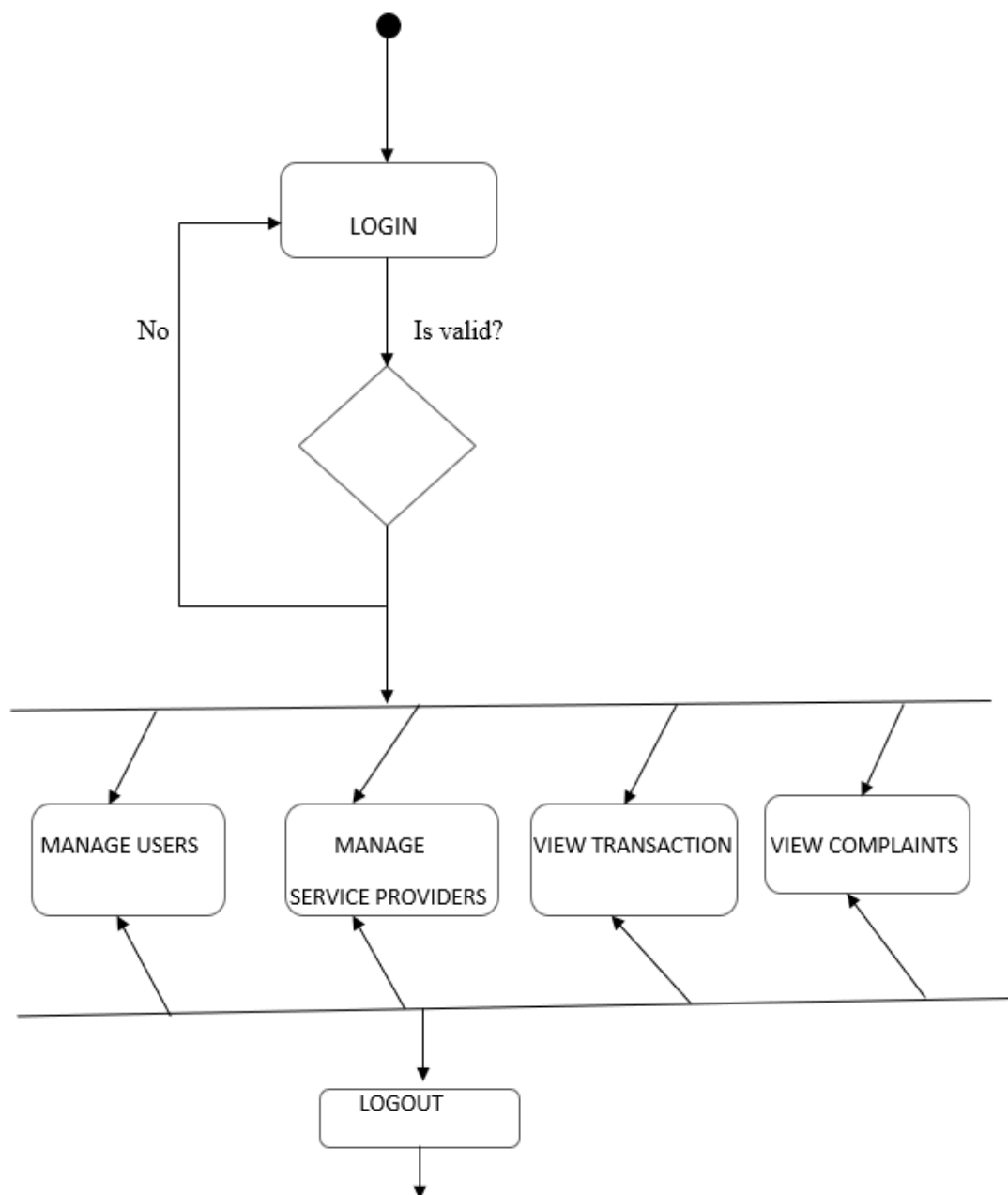


Figure III.9: Activity diagram for Admin

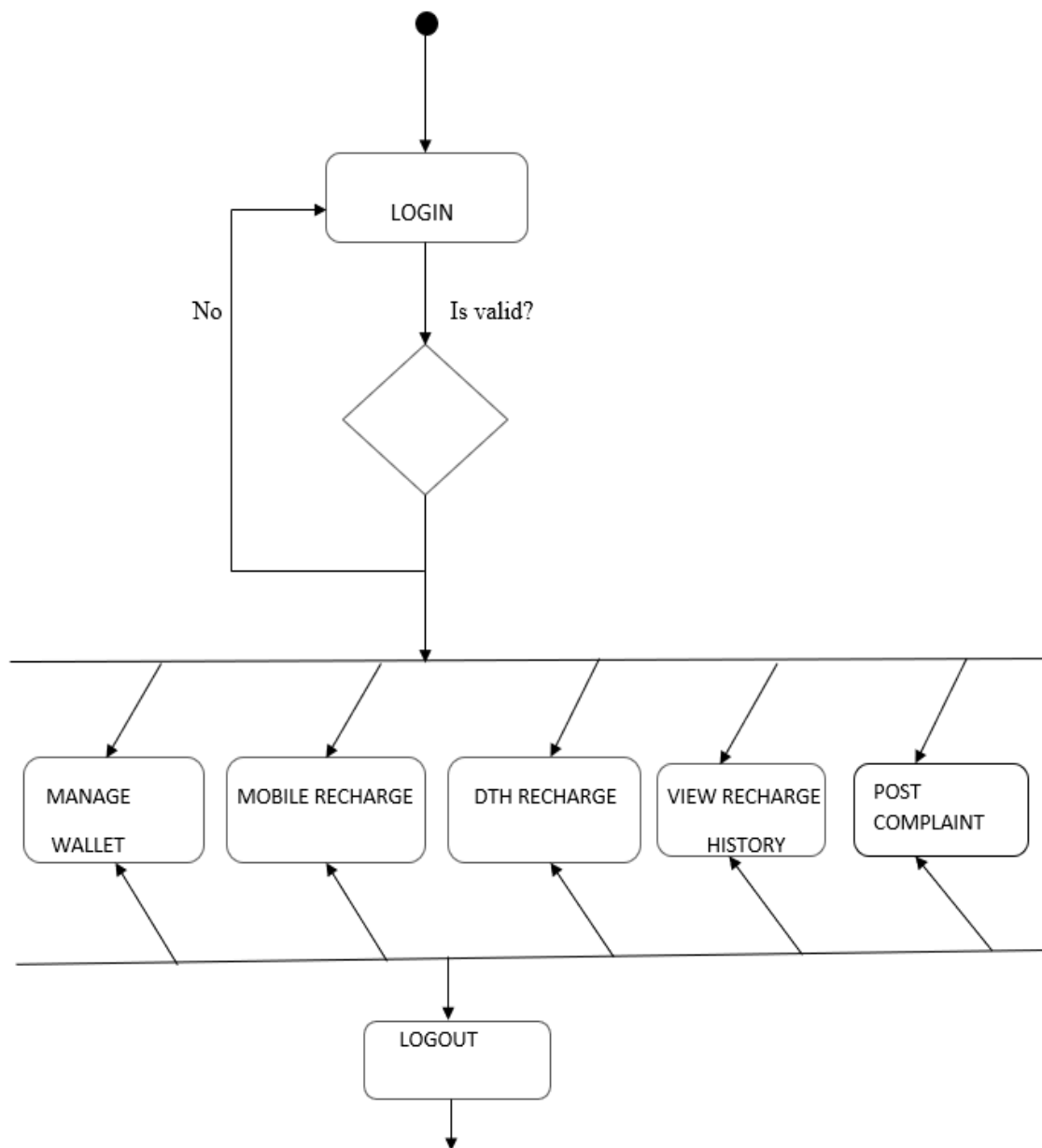


Figure III.10: Activity diagram for User

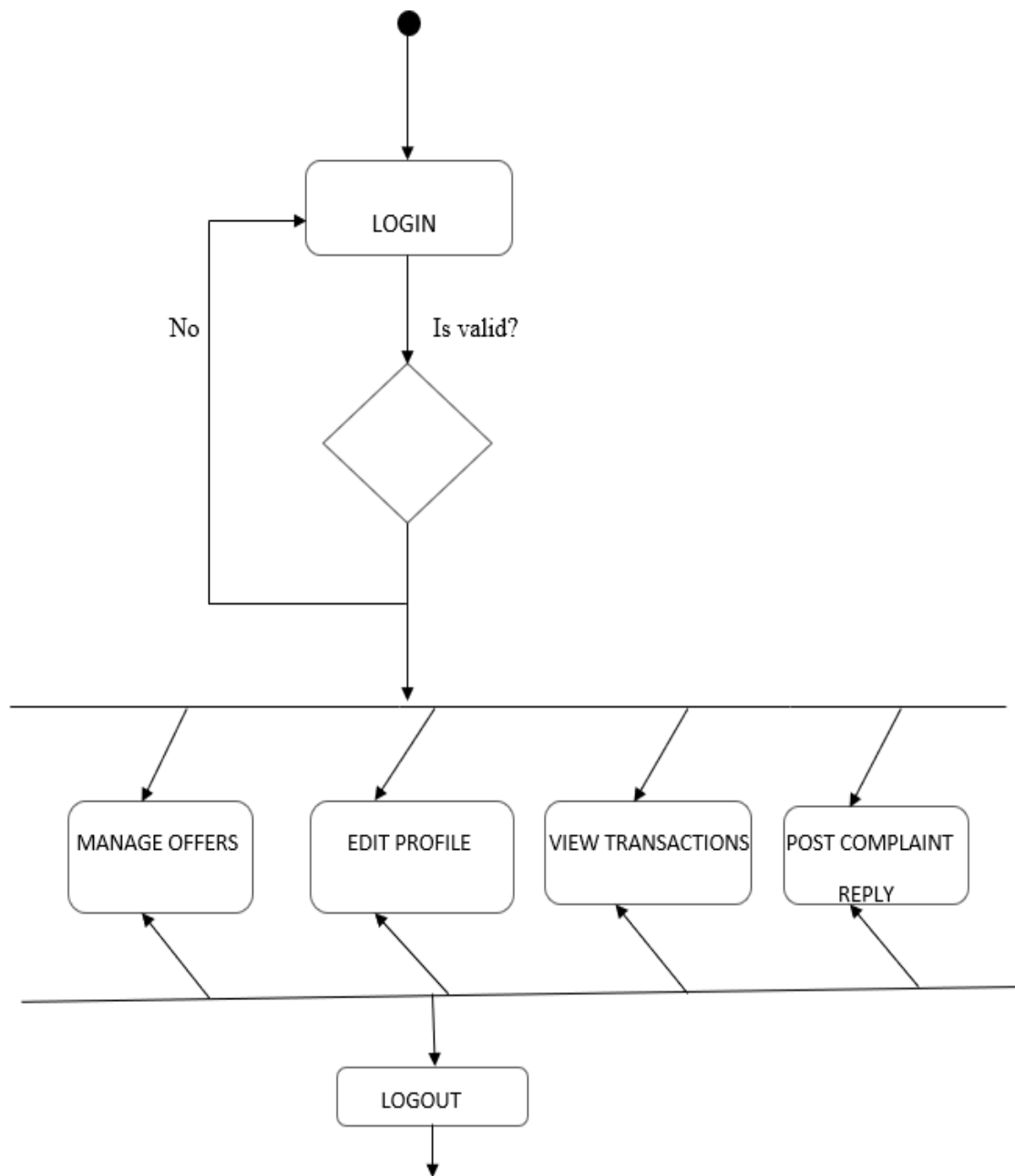


Figure III.11: Activity diagram for Service provider

III.4 SYSTEM DESIGN

The most creative and challenging phase of the system life cycle is the system design. The term design describes a final system and the process by which it is developed. It refers to the technical specification that will be applied in implementing the candidate system. In system design, we move from the logical to the physical aspects of the life cycle.

The first step is to determine how the output is to be produced and in what format. Then input data and master files have to be designed as the next step and finally the impact of the candidate system on the user and organization are documented and evaluated by the management. After identifying the problem and the limitation of the existing system, a detailed design of the proposed system is conducted.

Free flow personnel interview and reference to previous records prepared manually were the only methods taken to collect necessary information. At present, all organizations are on the path of computerization process.

Design is the phase that indicates the final system. It is the solution, the translation of requirements into ways of meeting them. In this phase the following elements were designed namely, data flow, data stores, processes, procedures was formulated in a manner that meet the project requirements. After logical design physical construction of the system is done.

The database tables, input screens, output screens, output reports are designed. After analysing the various functions involved in the system the database, labels as dictionaries designed. Care is taken for the field name to be in self-explanatory form. Unnecessary fields are avoiding so as not affecting the storage system.

Care must be taken to design the input screen in the most user-friendly way so as to help even the novice users to make entries approximately in the right place. This is being accomplished

by the use of giving online help messages, which are brief and cleanly prompts users for appropriate action.

Design is the only way that we can accurately translate a customer's requirements into a finished software product or system. Without design, risk of building an unstable system exist one that will fail when small changes are made, one that will be difficult to test.

All input screens in the system are user friendly and are designed in such a way that even a layman can operate. The sizes of all screens are standardized.

Reports generated in this software give the finer accepts of the required information, which helps in taking vital decision.

The importance of the software design can be stated with a single word quality. Design is a place where quality is fostered in software development. Design is the only way where requirements are actually translated into a finished software product or system.

Mainly this project consists of 4 Modules:

- **Admin**
- **Users**
- **Service provider**

Admin Module

Administrator is the main actor in this system. He has the entire control of the system which includes manage all the details to generate the reports. Brief description about the functionalities performed by the admin is given below. After the admin successfully login to this website the admin can perform the functionalities including:

Admin

- Login
- Approve and reject registered service providers
- Approve and reject registered users
- view the transaction history
- view and remove complaints,
- view commission details.

User

- Registration
- Login
- Mobile recharge
- Dth recharge
- Wallet transaction
- View offers or plans.
- Add complaints and view replays
- View recharge history
- Search recharge history by using date and amount

Service provider

- Registration
- Login
- Edit profile.
- Add and remove offers
- View recharge requests
- Search transaction history by using date and amount
- View complaints post reply

III.4.1 Input Design

Input design is the process of converting a user oriented description of the inputs to a computer based business system into a programmer oriented specification. The design decision for handling input specify how data are accepted for computer processing. Input design is a part of overall design that needs careful attention. The collection of input data is considered to be the most expensive part of the system design. Since the inputs have to be planned in such a way so as to get the relevant information, extreme care is taken to obtain the pertinent information. If the data going into the system is incorrect then the processing and outputs will magnify these errors. The goal of designing input data is to make data entry as easy, logical and free from errors as possible. The following are the objectives of input design:

- To produce a cost effective method of input.
- To ensure validation

Effort has been made to ensure that input data remains accurate from the stage at which it is recorded and documented to the stage at which it is accepted by the computer. Validation procedures are also present to detect errors in data input, which is beyond control procedures. Validation procedures are designed to check each record, data item or field against certain criteria.

In my proposed system Image Compression, data has to be accurate and complete. If not, error messages are displayed to the user and he is unable to proceed to the next stage of action unless he corrects his data. Duplicate entries are not allowed. The data validation, a procedure of the proposed system, provides program checks for the completeness, consistency, reasonableness and sequence of the system.

Maximum care has been taken to ensure that user types in only minimum data into the system, as all he/she will have to do is to move and click the mouse or strike a key to select the desired data at the desired position.

The screens are designed in such a way that the user can find the needed like options, actions etc. with ease of use. The needed columns, where interaction is needed, like labels, buttons are

also simple. The related data columns are clubbed together as groups, so that the user can understand the related data easily.

The input design is the link between the information system and the user. It comprises developing specifications and procedures for data preparation and those steps that are necessary to put input data into a usable form for processing data entry. The design of inputs focuses on controlling the amount of inputs required, controlling errors, avoiding delay, avoiding extra steps and keeping the process simple.

III.4.2 Data Flow Diagram

Data flow diagram is the graphical representation of the system. It is a network that uses special symbols to describe the flow of data and process that transforms data throughout the system.

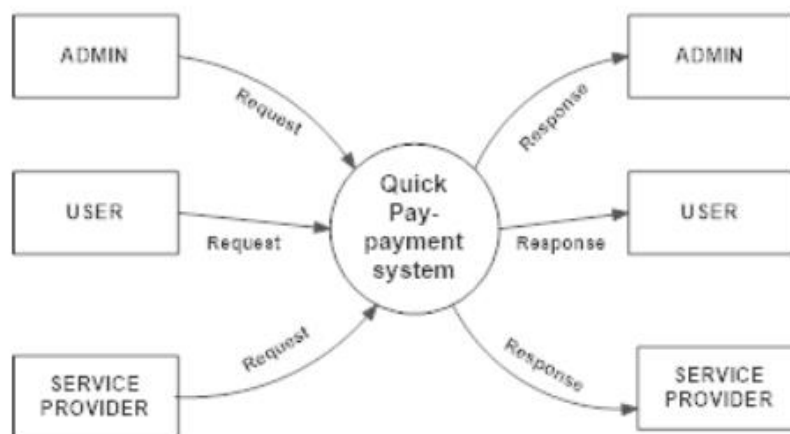


Figure III.12: Level 0 DFD

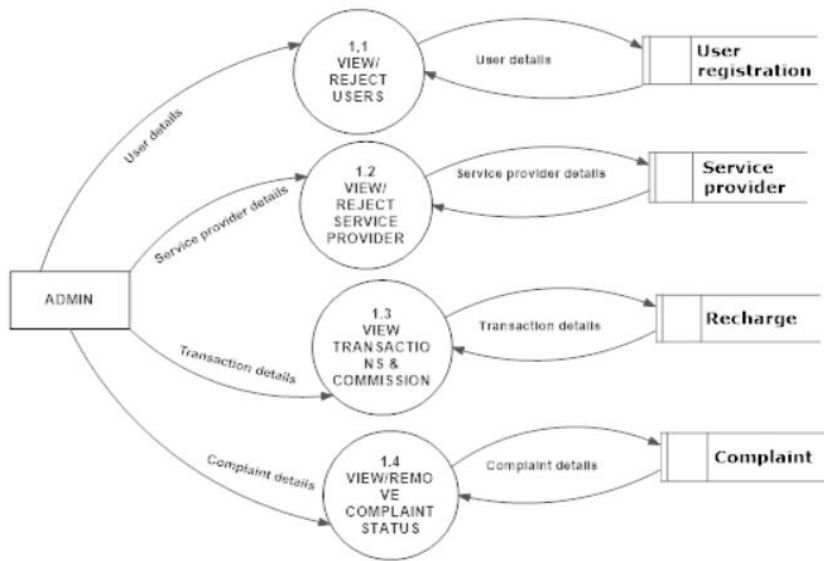


Figure III.13: Level 1 DFD for Admin

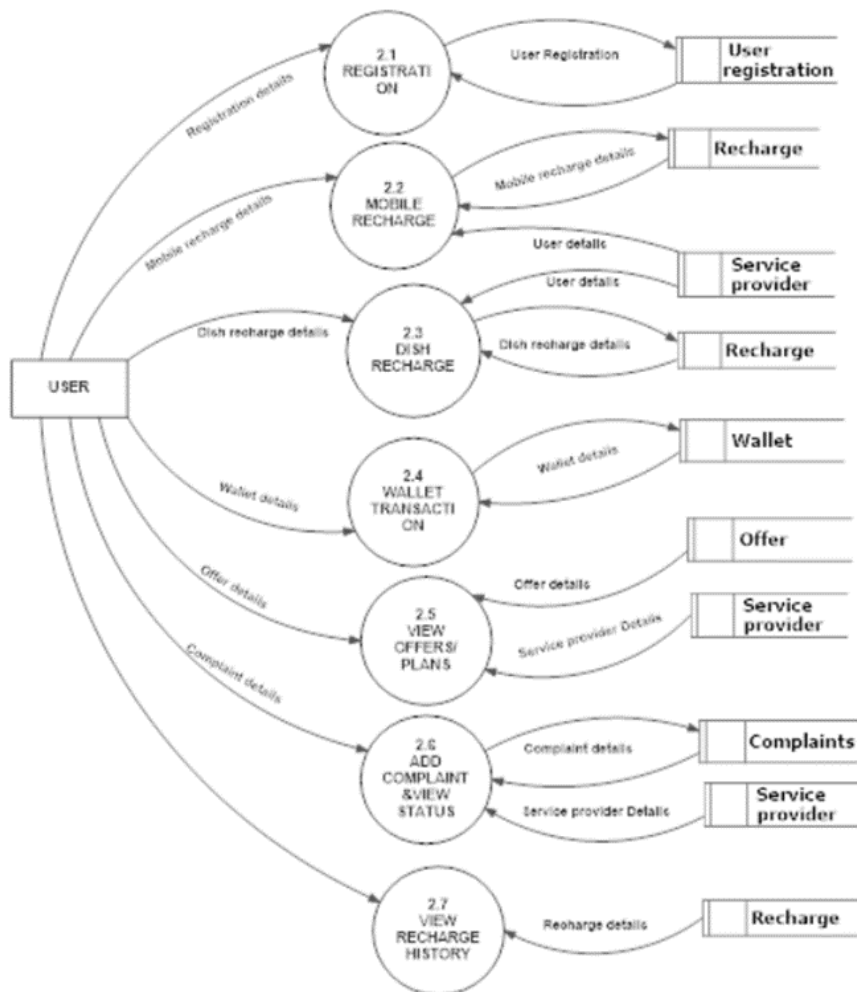


Figure III.14: Level 1 DFD for User

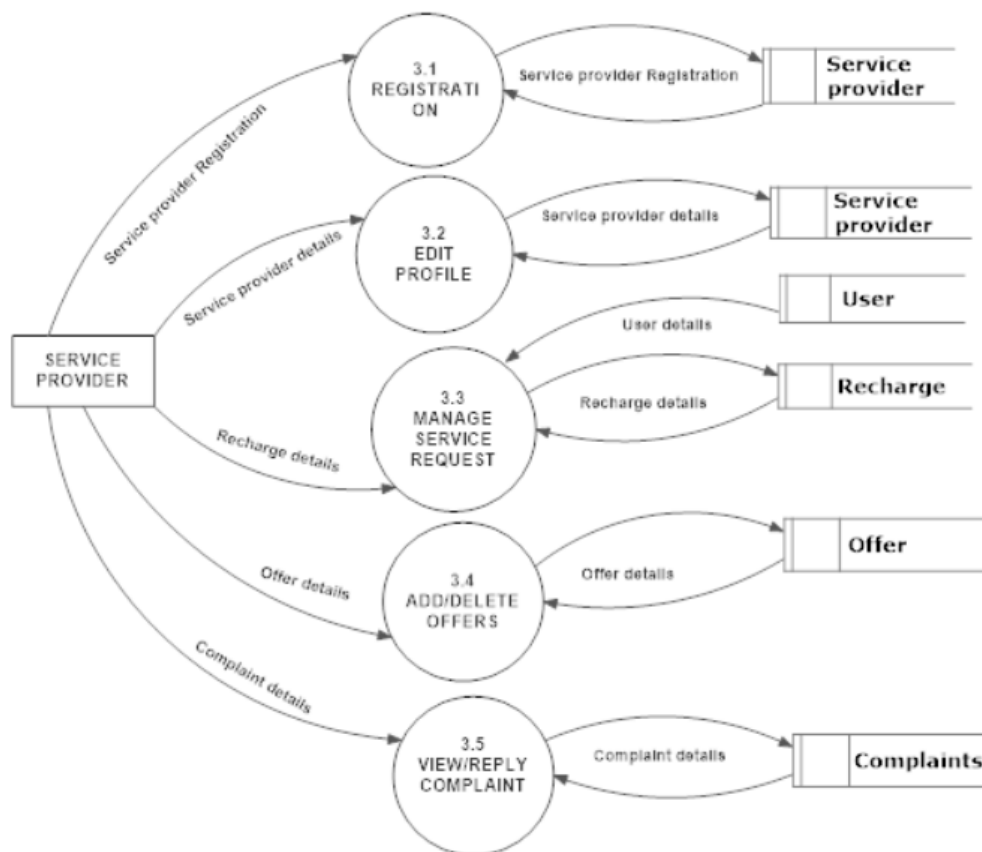


Figure III.15: Level 1 DFD for Service provider

III.4.3 Output Design

The output design phase of the system design is concerned with the conveyance of information to the end users in user friendly manner. The output design should be efficient, intelligible so that the system relationship with the end user is improved and thereby enhancing the process of decision making. The output design is an ongoing activity almost from the beginning of the project, efficient and well defined output design improves the relation of the system and the user. The primary considerations in the design of the output are the requirement of the information and the objective of the end user. There are various types of outputs required by most of the systems, but outputs of Image Compression are purely interactive outputs which involve the user in communicating with the computer.

The system output may be of any of the following

- A report
- A document
- A message

The output design specification is made in such a way that it is unambiguous and comprehensive. The approach to output design is very dependent on the type of output and nature of data. Special attention has to be made to data editing. The choice of appropriate output medium is also an important task. The output designed must be specified and documented, data items have to be accurately defined and arranged for clarity. The layout of the output will be normally specified on a layout chart. The final design layout must be approved by the user, communicated in detailed to the programmer. The user's requirements are quite different from that of the programmer. Before preparing a specification for the programmer, it is prudent to ensure that the design is acceptable to the user.

III.4.4 Database Design

TABLES

USER

FIELD	DATA TYPE	DESCRIPTION
id	Integer	Id of user table
First_name	String	First name of user
Last_name	String	Last name of user
email	String	Email id of user
Username	String	Username of the user
password	String	Password of the user

Primary key: id

SERVICE PROVIDER

FIELD	DATA TYPE	DESCRIPTION
id	Integer	Id of the table
uname	String	Username of service provider
name	String	Name of service provider
category	String	Service category
website	String	Website of service provider
mob	Integer	Mobile number of service provider
email	String	Email id of service provider
status	Integer	Status of deactivation
img	file	Icon of service provider

Primary key: id

USER REGISTRATION

FIELD	DATA TYPE	DESCRIPTION
id	Integer	Id of the table
fname	String	First name of user
lname	String	Last name of user
mob	Integer	Mobile number of user
email	String	Email id of user
status	Integer	Status of deactivation

Primary key: id

RECHARGE

FIELD	DATA TYPE	DESCRIPTION
id	Integer	Id of the table
uname	String	Username
Service_no	Integer	Service number
s_provider	String	Service provider
category	String	Service category
amount	Integer	Amount
status	String	Status
date	Integer	Date
commission	Integer	Payment commission

Primary key: id

Foreignkey: uname

WALLET

FIELD	DATA TYPE	DESCRIPTION
id	Integer	Id of the table
c_bal	Integer	Current balance
ad_money	Integer	Add money

Primary key: id

OFFER

FIELD	DATA TYPE	DESCRIPTION
id	Integer	Id of the table
spname	String	Service provider's name
Ofr_dtls	String	Offer details

Primary key: id

Foreignkey: spname

COMPLAINTS

FIELD	DATA TYPE	DESCRIPTION
id	Integer	Id of the table
uname	String	Username
spname	String	Service provider name
complaint	String	Complaint type
details	String	Complaint details
reply	String	Reply to the complaint
status	String	Status about the complaints
r_status	String	Status about replies

Primary key: id

Foreignkey: uname, spname

III.5 TOOLS AND PLATFORMS

III.5.1 Python

Python is an interpreted high level programming language for general purpose programming. Created by Guido van Rossum and first released in 1991, Python has a design philosophy that emphasizes code readability, notably using significant whitespace. It provides constructs that enable clear programming on both small and large scales. In July 2018, Van Rossum stepped down as the leader in the language community after 30 years.

Python features a dynamic type system and automatic memory management. It supports multiple programming paradigms, including object oriented, imperative, functional and procedural, and has a large and comprehensive standard library.

Python interpreters are available for many operating systems. CPython, the reference implementation of Python, is open source software and has a community based development model, as do nearly all of Python's other implementations. Python and CPython are managed by the non profit Python Software Foundation.

Python Environment:

A Python environment is a child/offshoot of a parent python distribution which allows you to use the packages in the parent distribution as well as to install packages that are only visible to the child distribution.

Python Language:

Python is a powerful high level, object oriented programming language created by Guido van Rossum. It has simple easy to use syntax, making it the perfect language for someone trying to learn computer programming for the first time.

Python is a general purpose language. It has wide range of applications from Web development (like: Django and Bottle), scientific and mathematical computing (Orange, SymPy, NumPy) to desktop graphical user Interfaces (Pygame, Panda3D).

The syntax of the language is clean and length of the code is relatively short. It's fun to work in Python because it allows you to think about the problem rather than focusing on the syntax.

Python Runtime Environment:

The runtime environment used to execute the code. It is made up of the Python language and Python interpreter. It is portable and it is platform neutral.

Python tools:

It is used by the developers to create Python code. They include Python compiler, Python interpreter, classes, libraries etc.

Python Application:

Applications are programs written in Python to carry out certain tasks on standalone local computer. Python source code is automatically compiled into Python byte code by the CPython interpreter. Compiled code is usually stored in PYC (or PYO) files, and is regenerated when the source is updated, or when otherwise necessary.

To distribute a program to people who already have Python installed, you can ship either the PY files or the PYC files. In recent versions, you can also create a ZIP archive containing PY or PYC files, and use a small “bootstrap script” to add that ZIP archive to the path.

III.5.2 Django Framework

Django is a high level Python web framework that enables rapid development of secure and maintainable websites. Built by experienced developers, Django takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel. It is free and open source, has a thriving and active community, great documentation, and many options for free and paid for support.

Django helps you write software that is:

Complete

Django follows the "Batteries included" philosophy and provides almost everything developers might want to do "out of the box". Because everything you need is part of the one "product", it all works seamlessly together, follows consistent design principles, and has extensive and up to date documentation.

Versatile

Django can be (and has been) used to build almost any type of website — from content management systems and wikis, through to social networks and news sites. It can work with any client side framework, and can deliver content in almost any format (including HTML, RSS feeds, JSON, XML, etc). The site you are currently reading is based on Django!

Internally, while it provides choices for almost any functionality you might want (e.g. several popular databases, templating engines, etc.), it can also be extended to use other components if needed.

Secure

Django helps developers avoid many common security mistakes by providing a framework that has been engineered to "do the right things" to protect the website automatically. For example,

Django provides a secure way to manage user accounts and passwords, avoiding common mistakes like putting session information in cookies where it is vulnerable (instead cookies just contain a key, and the actual data is stored in the database) or directly storing passwords rather than a password hash.

A password hash is a fixed length value created by sending the password through a cryptographic hash function. Django can check if an entered password is correct by running it through the hash function and comparing the output to the stored hash value. However due to the "one way" nature of the function, even if a stored hash value is compromised it is hard for an attacker to work out the original password.

Django enables protection against many vulnerabilities by default, including SQL injection, cross-site scripting, crosssite request forgery and clickjacking (see Website security for more details of such attacks).

Scalable

Django uses a component based “shared-nothing” architecture (each part of the architecture is independent of the others, and can hence be replaced or changed if needed). Having a clear separation between the different parts means that it can scale for increased traffic by adding hardware at any level: caching servers, database servers, or application servers. Some of the busiest sites have successfully scaled Django to meet their demands (e.g. Instagram and Disqus, to name just two).

Maintainable

Django code is written using design principles and patterns that encourage the creation of maintainable and reusable code. In particular, it makes use of the Don't Repeat Yourself (DRY) principle so there is no unnecessary duplication, reducing the amount of code. Django also promotes the grouping of related functionality into reusable "applications" and, at a lower level, groups related code into modules (along the lines of the Model View Controller (MVC) pattern).

Portable

Django is written in Python, which runs on many platforms. That means that you are not tied to any particular server platform, and can run your applications on many flavours of Linux, Windows, and Mac OS X. Furthermore, Django is well supported by many web hosting providers, who often provide specific infrastructure and documentation for hosting Django sites.

III.5.3 Python - Spacy

Spacy is a relatively new package for “Industrial strength NLP in Python” developed by Matt Honnibal at Explosion AI. It is designed with the applied data scientist in mind, meaning it does not weigh the user down with decisions over what esoteric algorithms to use for common tasks and it’s fast. Incredibly fast (it’s implemented in Cython). If you are familiar with the Python data science stack, spacy is your numpy for NLP – it’s reasonably low level, but very intuitive and performant.

Spacy provides a one stop shop for tasks commonly used in any NLP project, including:

- Tokenisation
- Lemmatisation
- Part-of-speech tagging
- Entity recognition
- Dependency parsing
- Sentence recognition
- Word-to-vector transformations
- Many convenience methods for cleaning and normalizing text

III.5.4 Django – Crispy – Forms

Django-crispy-forms is a Django application that lets you easily build, customize and reuse forms using your favorite CSS framework, without writing template code and without having to take care of annoying details. Django-crispy-forms implements a class called FormHelper

that defines the form rendering behavior. Helpers give you a way to control form attributes and its layout, doing this in a programatic way using Python. This way you write as little HTML as possible, and all your logic stays in the forms and views files.

III.5.5 Python – xhtml2pdf

xhtml2pdf is a HTML/XHTML/CSS to PDF converter written in Python and based on Reportlab Toolkit, pyPDF, TechGame Networks CSS Library and HTML5lib. The primary focus is not on generating perfect printable webpages but to use HTML and CSS as commonly known tools to generate PDF files within Applications. For example generating documentations (like this one), generating invoices or other office documents etc.xhtml2pdf enables users to generate PDF documents from HTML content easily and with automated flow control such as pagination and keeping text together. The Python module can be used in any Python environment, including Django.

xhtml2pdf is a html2pdf converter using the ReportLab Toolkit, the HTML5lib and pyPdf. It supports HTML 5 and CSS 2.1 (and some of CSS 3). It is completely written in pure Python so it is platform independent.The main benefit of this tool that a user with Web skills like HTML and CSS is able to generate PDF templates very quickly without learning new technologies.xhtml2pdf was previously developed as "pisa".

III.5.6 Pycharm IDE 3.4

JetBrains has developed PyCharm as a cross-platform IDE for Python. In addition to supporting versions 2.x and 3.x of Python, PyCharm is also compatible with Windows, Linux, and macOS. At the same time, the tools and features provided by PyCharm help programmers to write a variety of software applications in Python quickly and efficiently. The developers can even customize the PyCharm UI according to their specific needs and preferences. Also, they can extend the IDE by choosing from over 50 plugins to meet complex project requirements.

Important Features and Tools Provided by PyCharm

Code Editor

The intelligent code editor provided by PyCharm enables programmers to write high quality Python code. The editor enables programmers to read code easily through colour schemes, insert indents on new lines automatically, pick the appropriate coding style, and avail context-aware code completion suggestions. At the same time, the programmers can also use the editor to expand a code block to an expression or logical block, avail code snippets, format the code base, identify errors and misspellings, detect duplicate code, and auto generate code. Also, the editor makes it easier for developers to analyze the code and identify the errors while writing code.

Code Navigation

The smart code navigation options provided by PyCharm help programmers to edit and improve code without putting extra time and effort. The IDE makes it easier for programmers to go to a class, file and symbols, along with the go to declarations invoked from a reference. The user can even find an item in the source code, code snippet, UI element, or user action almost immediately. They can further locate usage of various symbols, and set bookmarks in the code. At the same time, the developers can even take advantage of the code navigation feature to scrutinize the code thoroughly in the lens mode.

Refactoring

PyCharm makes it easier for developers to implement both local and global changes quickly and efficiently. The developers can even take advantage of the refactoring options provided by the IDE while writing plain Python code and working with Python frameworks. They can avail the rename and move refactoring for files, classes, functions, methods, properties, parameters, and local/global variables. Likewise, they can improve code quality by extracting variables, fields, constants, and parameters. Also, PyCharm allows programmers to break up longer classes and methods through extract method.

Support for Popular Web Technologies

PyCharm makes it easier for programmers to write various web applications in Python supporting widely used web technologies like HTML, CSS, JavaScript, TypeScript and CoffeeScript. The web developers can use the live editing preview option provided by the IDE to view a single web page simultaneously in the editor and browser. At the same time, the live edit feature provided by the IDE enables programmers to see the changes made to the code instantaneously on a web browser. PyCharm further allows developers to avail a JavaScript debugger as well as CoffeeScript and TypeScript editors. It even simplifies isomorphic web application development by supporting both AngularJS and NodeJS.

Support for Popular Python Web Frameworks

In addition to supporting commonly used web technologies, PyCharm also provides first class support for a robust Python web framework like Django. The developers can use the IDE to avail code completion suggestions for Django tags, filters, parameters, and template variables. Also, they can gather additional information about tags and filters by referring to the quick documentation. The Python IDE even helps web developers to debug Django templates, format the code, verify the code, and manage .py consoles. At the same time, PyCharm also supports widely used Python web frameworks like Pyramid and Web2Py. It provides code completion and navigation options specific to Pyramid. Likewise, it allows web developers to avail code completion and navigation options while working with Web2Py.

Support for Python Scientific Libraries

PyCharm further helps programmers to use Python more efficiently in big data and data science projects. It supports some of the widely used scientific libraries for Python—NumPy, Anaconda and Metplotlib. The developers can work efficiently with these scientific libraries by availing the interactive graphs, deep code insight, and array viewers provided by the IDE. They can even run the REPL Python console provided by PyCharm to avail robust features like on the fly syntax check and code inspection. At the same time, the programmers can also

integrate the IDE seamlessly with IPython Notebook to create innovative solutions without putting extra time and effort.

Database Tools

SQLite3

SQLite3 can be integrated with Python using `sqlite3` module, which was written by Gerhard Haring. It provides an SQL interface compliant with the DB-API 2.0 specification described by PEP 249. You do not need to install this module separately because it is shipped by default along with Python version 2.5.x onwards. To use `sqlite3` module, first create a connection object that represents the database and then optionally you can create a cursor object, which will help you in executing all the SQL statements.

In addition to supporting various Python libraries and frameworks, PyCharm allows developers to work with a number of relational databases including Oracle, SQL Server, MySQL and PostgreSQL. The developers can further use the IDE to run queries, edit SQL code, browse data, alter table data, and alter/analyze schemas. PyCharm further supports SQLAlchemy library and inject SQL code into code written in various programming languages. The professional edition of the IDE further makes it easier for developers to handle large volumes of data efficiently through data grids.

Visual Debugger

The visual debugger provided by the IDE helps programmers to debug Python, JavaScript, and Django code. The developers can use the inline debugger to see live debugging data directly on the editor. Likewise, they can debug multiple Python processes simultaneously and step through the code bypassing libraries. PyCharm further creates reusable and customizable configuration for each test script or debugger execution. The users even have option to facilitate remote debugging by integrating the visual debugger with remote interpreters.

Built-in Terminal

PyCharm comes with local terminals for Windows, Linux, and macOS. The built-in terminal enables programmers to continue coding and testing without leaving the IDE. Also, the programmers can use the IDE to run Python files and configure custom Python environments according to precise project requirements. At the same time, they can run interactive Python or Django consoles directly in the IDE. The console provides useful features like code completion, automatic braces matching, and dynamic syntax change. The programmers even have option to integrate the console with both local and remote interpreters.

Support for Major Version Control Systems

PyCharm allows developers to work with widely used version control systems like Git, Mercurial, Perforce and SVN. It even performs complex tasks like adding, removing, and deleting files automatically. The developers even have option to avail a number of features provided by the IDE regardless of their choice of version control system—grouping individual changes into multiple change lists, setting aside the changes to be restored, monitor changes made to the code repository by various users, and check the changes made to the code before being integrated into the local copy.

Software Testing

Like other IDEs, PyCharm also comes with features and tools to simplify Python application testing. It allows developers to perform unit testing through popular Python testing frameworks like Nose, Attest and Doctests. The testers even have option to run individual or multiple test files and test classes. They can further integrate the IDE with Coverage.py to measure code coverage while testing the applications. While testing multi-threaded applications, the testers can use the thread concurrency visualization option provided by the IDE to control the application fully and efficiently.

CHAPTER IV SYSTEM TESTING

IV.1 TESTING METHODOLOGIES AND STRATEGIES

Software testing is an integral part of to ensure software quality, some software organizations are reluctant to include testing in their software cycle, because they are afraid of the high cost associated with the software testing .There are several factors that attribute the cost of software testing. Creating and maintaining large number of test cases is a time consuming process. Furthermore, it requires skilled and experienced testers to develop great quality test cases.

Even with the wide availability of automation tools for testing, the degree of automation mostly remains at the automated test script level and generally significant amount of human intervention is required in testing. In addition data collected, as testing is conducted provides a good indication of software quality as a while. The debugging process is the most unpredictable part of testing process. Testing begins at the module level and work towards the integration of entire computer based system. No testing is completed without verification and validation part.

The goal of verification and validation activities are to access and improve the quality of work products generated during the development and modification of the software. Testing plays a vital role in determining the reliability and efficiency of the software and hence is very important stage in software development. Tests are to be conducted on the software to evaluate its performance under a number of conditions. Ideally, it should do so at the level of each module and also when all of them are integrated to form the completed system.

In the project ”QUICKPAY-ONLINE PAYMENT SYSTEM” the testing has been successfully handled with the modules. The test data was given to each and every module in all respect and got the desired output. Each module that has been tested is found working properly.

IV.1.1 Unit Testing

Here we test each module individually and integrated the overall system. Unit testing focuses verification efforts even in the smallest unit of software design in each module. This is known as "module testing". The modules of the "QUICKPAY-ONLINE PAYMENT SYSTEM" are tested separately. This testing is carried out in the programming style itself. In this testing each module is focused to work satisfactorily as regard to expected output from the module. There are some validation checks for the fields. Unit testing gives stress on the modules of "QUICKPAY-ONLINE PAYMENT SYSTEM" independently of one another, to find errors. Different modules are tested against the specifications produced during the design of the modules. Unit testing is done to test the working of individual modules with test servers. Program unit is usually small enough that the programmer who developed it can test it in a great detail. Unit testing focuses first on that the modules to locate errors. These error are verified and corrected and so that the unit perfectly fits to the project.

IV.1.2 Integration Testing

Data can be lost across an interface, one module can have an adverse effect on the other sub-functions, when combined they may not perform the desired functions. Integrated testing is the systematic testing to uncover the errors within the interface. This testing is done with simple data and the developed system has run successfully with this simple data. The need for integrated system is to find the overall system performance. The Modules of this project are connected and tested.

After splitting the programs into units, the units were tested together to see the defects between each module and function. It is testing to one or more modules or functions together with the intent of finding interface defects between the modules or functions. Testing completed at as part of unit or functional testing, integration testing can involve putting together of groups of modules and functions with the goal of completing and verifying meets the system requirements.

IV.1.3 system Testing

System testing focuses on testing the system as a whole. System Testing is a crucial step in Quality Management Process. In the Software Development Life Cycle, System Testing is the first level where the System is tested as a whole. The System is tested to verify whether it meets the functional and technical requirements. The application/System is tested in an environment that closely resembles the production environment where the application will be finally deployed.

The prerequisites for System Testing are:-

- All the components should have been successfully Unit Tested.
- All the components should have been successfully integrated.
- Testing should be completed in an environment closely resembling the production environment. When necessary iterations of System Testing are done in multiple environments.

IV.1.4 User Acceptance Testing

The system was tested by a small client community to see if the program met the requirements defined in the analysis stage. It was found to be satisfactory. In this phase, the system is fully tested by the client community against the requirements defined in the analysis and design stages, corrections are made as required, and the production system is built. User acceptance of the system is a key factor for success of the system.

CHAPTER V

SYSTEM IMPLEMENTATION

The implementation is one phase of software development. Implementation is that stage in the project where theoretical design is turned into working system. Implementation involves placing the complete and tested software system into actual work environment. Implementation is concerned with translating design specification with source code. The primary goal of implementation is to write the source code to its specification that can be achieved by making the source code clear and straight forward as possible. Implementation means the process of converting a new or revised system design into operational one. The three types of implementation are:-implementation of a computerized system to replace a manual system, implementation of a new system to replace existing one and implementation of a modified system to replace an existing one.

The implementation is the final stage and it is an important phase. It involves the individual programming; system testing, user training, and the operational running of developed proposed system that constitute the application subsystem. The implementation phase of the software development is concerned with translating design specification in the source code. The user tests the developed system and the changes are according to the needs. Before implementation, several tests have been conducted to ensure no errors encountered during the operation. The implementation phase ends with an evaluation of the system after placing it into operation of time. The validity and proper functionality of all the modules of the developed application is assured during the process of implementation. Implementation is the process of assuring that the information system is operational and then allowing user to take over its operation for use and evaluation. Implementation is the stage in the project where the theoretical design is turned into a working system. The implementation phase constructs, installs and operated the new system. The most crucial stage in achieving a new successful system is that it works effectively and efficiently.

CHAPTER VI

CONCLUSION

The fundamental goal of the project is to develop a “QUICKPAY-ONLINE PAYMENT SYSTEM”. The software was developed and tested with sample data and outputs obtained according to the requirements. The performance of the system is evaluated and is found to be much more efficient than the existing system though it cannot be claimed that it is not an ideal project, it will meet the primary requirements of the concern.

This project has been developed successfully and performance of the system has been found satisfactory. The use of user friendly interface helps customer in having immediate information about available recharging offers or plans and do recharges without wasting their precious time with the use of the online wallet. This also helps service providers to add their offers or plans. The project meets all the requirements as described in the proposed system and satisfies user requirements to a great extent. The software thus developed is easy to maintain and is quite user friendly.

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APPENDIX A APPENDICES

A.1 SCREEN SHOTS INPUT FORM, OUTPUT FORMS

A.1 SCREEN SHOTS

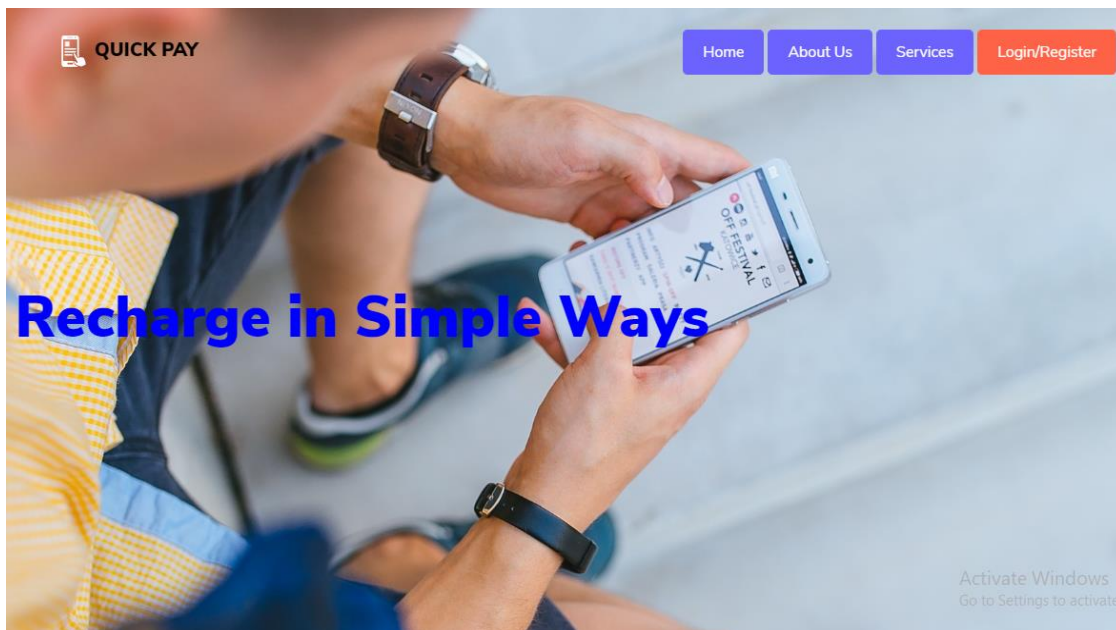


Figure A.1: Home Page

A screenshot of a user registration form. The background is a solid green color. The title "User Registration" is at the top in a large, white, sans-serif font. Below the title, there are six input fields stacked vertically. The first four fields contain the text "Jyothi", "kr", "9946483570", and "jyo@gmail.com" respectively. The fifth and sixth fields contain four dots "...." and "....|", indicating password input. At the bottom of the form, there is a green rectangular button with the word "SUBMIT" in white, uppercase letters.

Figure A.2: User registration page

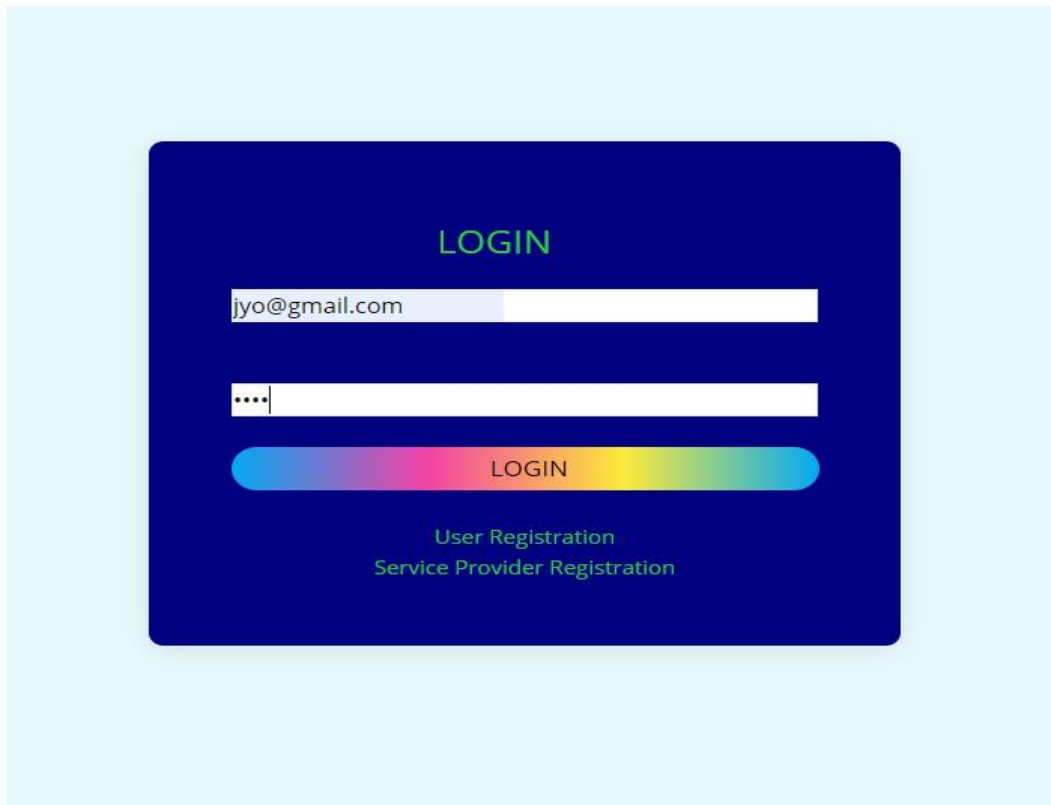


Figure A.3: Login page

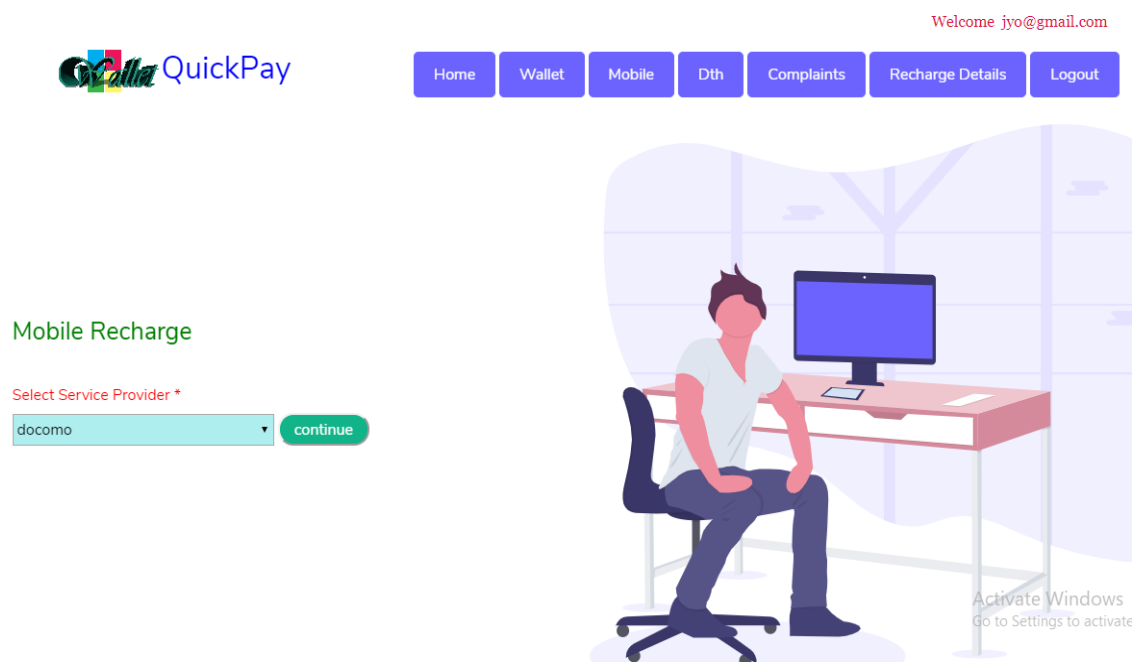



Figure A.4: Mobile recharge page

Welcome jyo@gmail.com

 QuickPay

Home Wallet Mobile Dth Complaints Recharge Details Logout

Latest Offers


- * Local Mobile Calls @ Rs.0.01/2 seconds. (price per day: Rs. 28).
- * 2G-3G Data: 1 GB, extra @Rs.0.03/10KB. (price per day: Rs. 14).
- * All Calls (excl. Roaming Calls) @ 1.0 p/sec. (price per day: Rs. 40).

Mobile Number *

Amount *

Choose your payment option:

☐ Wallet ☒ Credit/Debit card



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Figure A.5: Mobile offer viewing page

Success! Got token: tok_1GiwKICWtBeua1ozW7DZ6Lyd

Home Wallet Mobile Dth Complaints Recharge Details Logout

PAYMENT

Service Provider : docomo

Service Number : 9946483570

Amount : Rs. 40

Credit or debit card


 4242 4242 4242 4242 12 / 45 454 54878

Figure A.6: Payment page

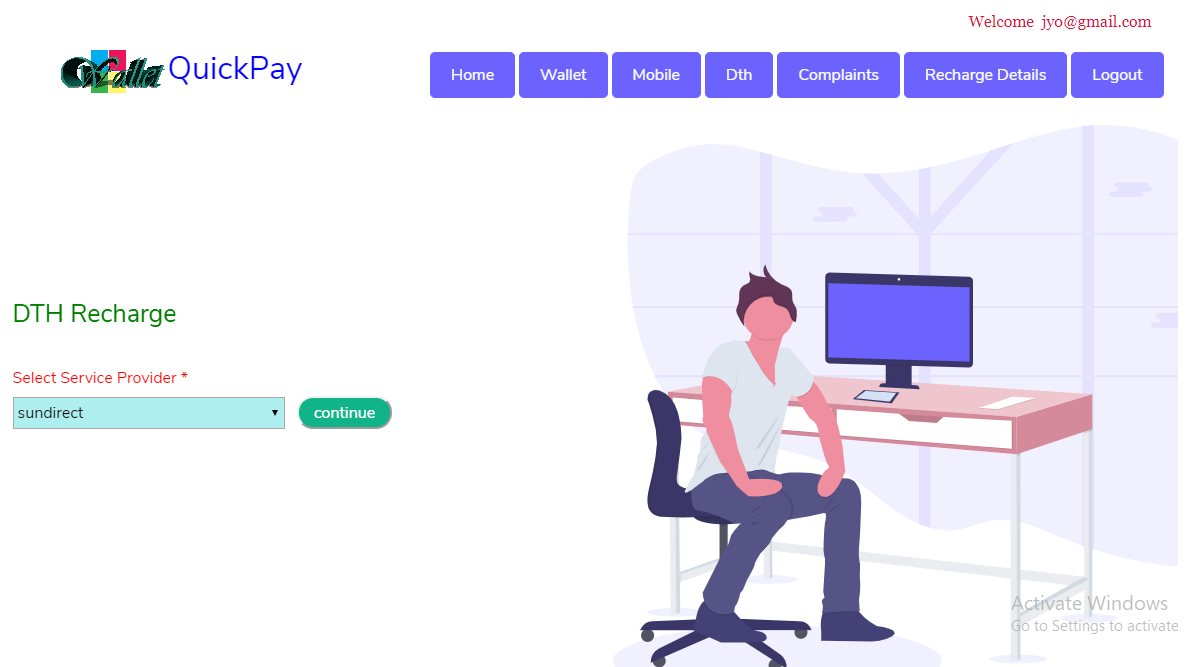


Figure A.7: Dth recharge page

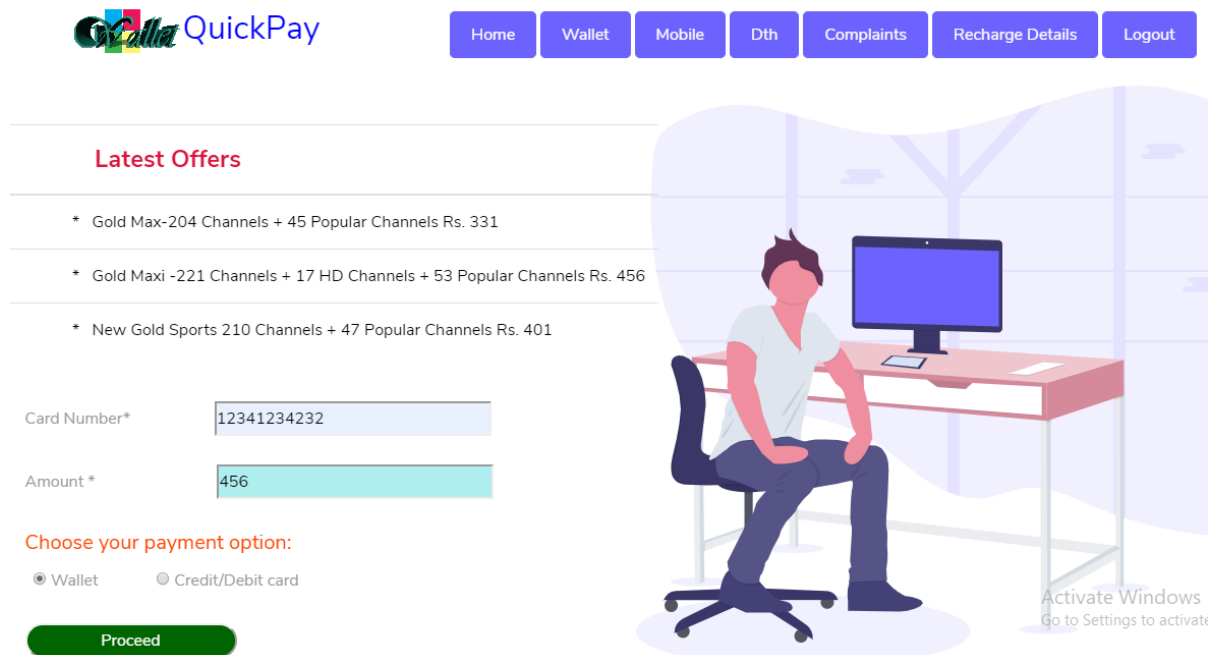


Figure A.8: Dth plans viewing page

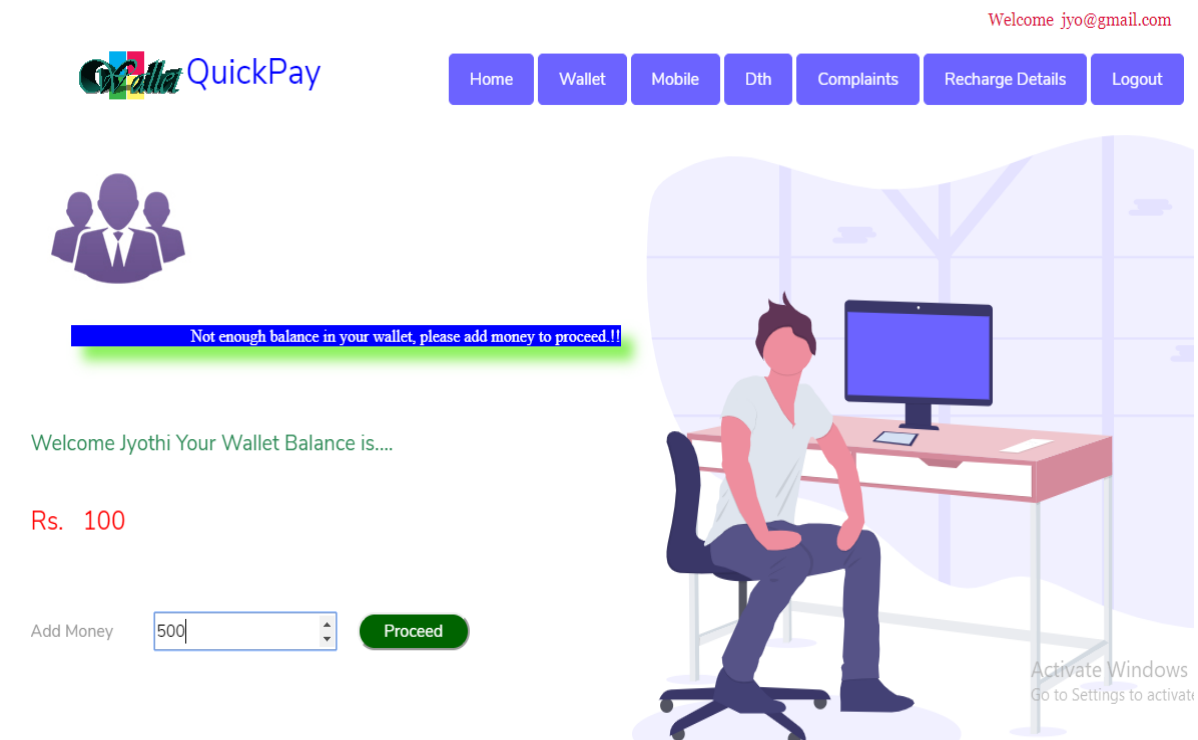


Figure A.9 Payment using wallet page

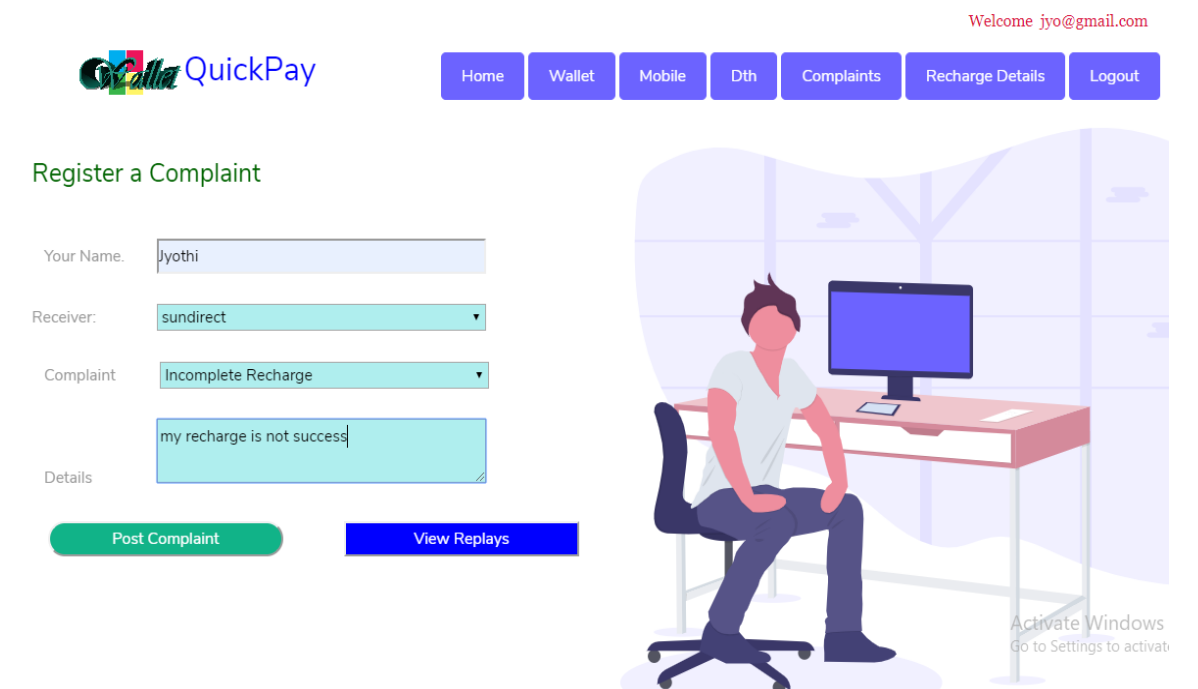


Figure A.10 Complaint posting page

Welcome jyo@gmail.com

QuickPay

Home Wallet Mobile Dth Complaints Recharge Details Logout

RECHARGE HISTORY

Amount: Date is greater than or equal to: Date is less than or equal to:

Service Provider	Category	Service Number	Amount	Date
docomo	mobile	9823457623	50	May 9, 2020, 2:34 a.m.
Videocon	dth	89674523411	100	May 9, 2020, 10:17 p.m.
airtel	mobile	9956345698	90	May 10, 2020, 4:23 p.m.
Videocon	dth	12345678901	485	May 10, 2020, 4:29 p.m.
sundirect	dth	12345678901	485	May 10, 2020, 4:30 p.m.
Idea	mobile	8765245675	50	May 13, 2020, 12:36 p.m.
Videocon	dth	12341234232	300	May 13, 2020, 12:45 p.m.
docomo	mobile	9946483579	40	May 13, 2020, 2:42 p.m.
sundirect	dth	12345678912	800	May 13, 2020, 2:45 p.m.
docomo	mobile	9946483579	100	May 13, 2020, 9:42 p.m.

Figure A.11 Recharge history searching page

Home profile Add offers Complaints Recharge Requests Logout


Welcome sundirect

Know Your Personal Recharge R


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Figure A.12 Service provider home page

Welcome sun@gmail.com

 QuickPay

[Home](#) [profile](#) [Add offers](#) [Complaints](#) [Recharge Requests](#) [Logout](#)



Username :sun@gmail.com

A Complete dth service platform

EDIT PROFILE

Service provider Name:

Website:

Contact:

Category:


UPDATE

Your profile is updated

Activate Windows
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Figure A.13 Profile editing page

Welcome sun@gmail.com




 QuickPay

[Home](#) [profile](#) [Add offers](#) [Complaints](#) [Recharge Requests](#) [Logout](#)

[View Offer Details](#)

Add Your Offers And Plans Here.....


New Gold Sports 210 Channels
+ 47 Popular Channels
Rs. 401

SUBMIT

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Figure A.14 Offer adding page



[Home](#)
[profile](#)
[Add offers](#)
[Complaints](#)
[Recharge Requests](#)
[Logout](#)


Welcome sun@gmail.com

Added Offers	Action
Gold Max-204 Channels + 45 Popular Channels Rs. 331	Remove
Gold Maxi -221 Channels + 17 HD Channels + 53 Popular Channels Rs. 456	Remove
New Gold Sports 210 Channels + 47 Popular Channels Rs. 401	Remove

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Figure A.15 Offer removing page




[Home](#)
[profile](#)
[Add offers](#)
[Complaints](#)
[Recharge Requests](#)
[Logout](#)

Welcome sun@gmail.com

Name	Complaint type	Details	Status	Action
Jyothi	Recharge Failed/ Amount Debited	my recharge is not success	Replied	View
Jyothi	Incomplete Recharge	my recharge is not completed	Pending	View
Anjana	Delay in Recharge	my recharge is delayed	Pending	View
Ruby	Wrong Recharge	my recarge is not success	Replied	View
Jyothi	Incomplete Recharge	my recharge is not success	Pending	View

Figure A.16 Complaint viewing page

Welcome sun@gmail.com

 **QuickPay**

Home profile Add offers Complaints Recharge Requests Logout

Complaint Reply

Username: jyo@gmail.com

Name: Jyothi

Complaint Type: Incomplete Recharge

Details: my recharge is not success

Reply:

POST REPLY

Figure A.17 Reply posting page

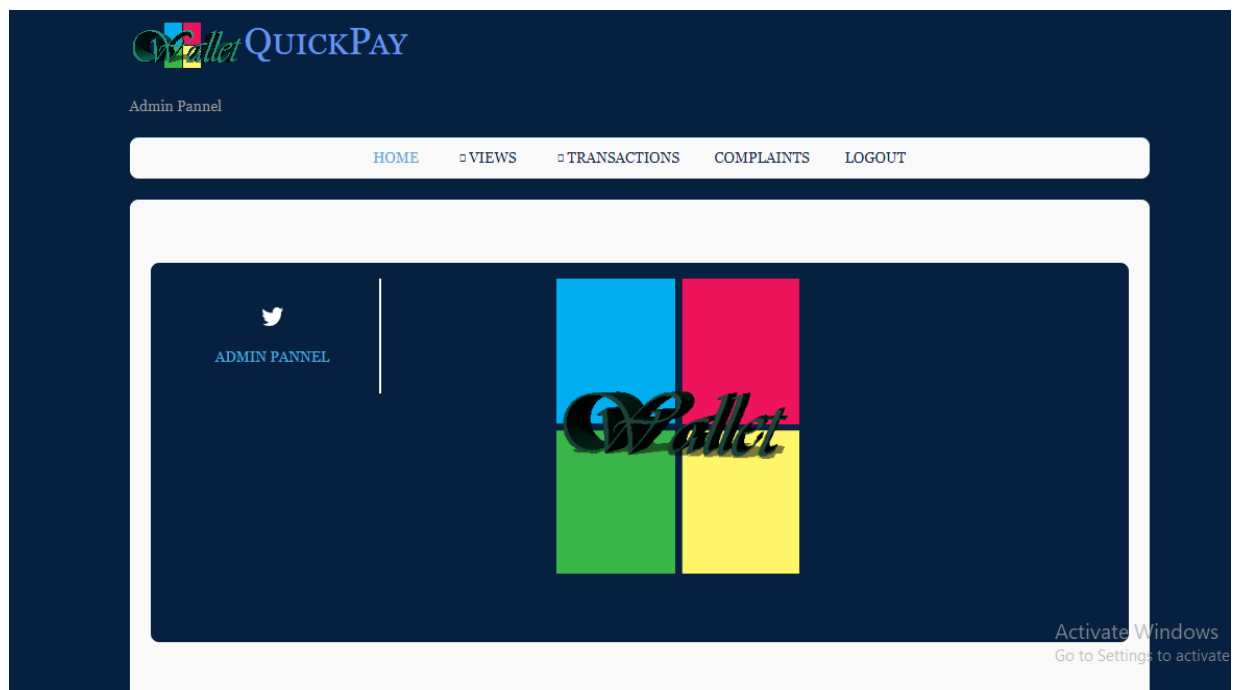


Figure A.18 Admin home page

Admin Pannel

HOME [VIEWS](#) [TRANSACTIONS](#) COMPLAINTS LOGOUT

REGISTERED SERVICE PROVIDERS

ID	Username	Provider Name	Category	Website	Contact	Operation
1	doc@gmail.com	docomo	mobile	http://www.docomo.com	1234567876	Deactivate
4	airtel@gmail.com	airtel	mobile	http://www.airtel.com	6543278995	Deactivate
5	sun@gmail.com	sundirect	dth	http://www.sundirect.com	9786745356	Deactivate
7	vdo@gmail.com	Videocon	dth	http://www.videocon.com	8765431256	Deactivate
8	idea@gmail.com	Idea	mobile	http://www.idea.com	9956376534	Deactivate

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Figure A.19 View registration details page

Admin Pannel


HOME [VIEWS](#) [TRANSACTIONS](#) COMPLAINTS LOGOUT

TRANSACTION HISTORY

Date	Username	Service Provider	Service No.	Amount	Commission
May 9, 2020, 10:17 p.m.	jyo@gmail.com	Videocon	89674523411	Rs. 100	Rs. 30
May 10, 2020, 2:48 p.m.	ruby@gmail.com	sundirect	89674523411	Rs. 300	Rs. 90
May 10, 2020, 4:29 p.m.	jyo@gmail.com	Videocon	12345678901	Rs. 485	Rs. 145
May 10, 2020, 4:30 p.m.	jyo@gmail.com	sundirect	12345678901	Rs. 485	Rs. 145
May 13, 2020, 12:45 p.m.	jyo@gmail.com	Videocon	12341234232	Rs. 300	Rs. 90
May 13, 2020, 1:15 p.m.	anjana@gmail.com	sundirect	98123456785	Rs. 401	Rs. 120
May 13, 2020, 1:16 p.m.	ruby@gmail.com	sundirect	89453678234	Rs. 401	Rs. 120
May 13, 2020, 2:45 p.m.	jyo@gmail.com	sundirect	12345678912	Rs. 800	Rs. 240

Activate Windows
Go to Settings to activate

Figure A.20 View transactions page



Admin Pannel

[HOME](#)
[VIEWS](#)
[TRANSACTIONS](#)
[COMPLAINTS](#)
[LOGOUT](#)

COMPLAINT HISTORY

User	Service Provider	Complaint type	Details	Status	Action
Anjana	docomo	Wrong Recharge	my recharge is not completed	Replied	Remove
Ruby	docomo	Delay in Recharge	my recharge is delayed solve it as soon	Replied	Remove
Jyothi	docomo	Incomplete Recharge	my recharge is not success	Pending	Remove
Jyothi	sundirect	Incomplete Recharge	my recharge is not completed	Pending	Remove

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Figure A.21 View complaint history page

A.2 SAMPLE CODE

views.py in login app

```
from django.conf import settings
from django.core.exceptions import ObjectDoesNotExist
from django.shortcuts import render
from django.http import HttpResponse
from django.contrib import messages
from django.db.models import Q
from django.shortcuts import render, redirect
from django.contrib.auth.models import User, auth

from .models import recharge
from .models import complaints
from .models import spweb,serviceprovider,userregistration,offer,Payment,wallet
from datetime import datetime
from .filters import rechargeFilter

import stripe

from django.core.files.storage import FileSystemStorage

stripe.api_key =settings.STRIPE_SECRET_KEY


def home(request):
    return render(request, 'index.html')
```

```

def indexadmin(request):
    return render(request, 'indexadmin.html')

def adminuserview(request):
    i = userregistration.objects.filter(status="1")
    return render(request, 'adminuserview.html',{'i':i})

def deleteuser(request,uname):
    d=userregistration.objects.get(email=uname)
    d.status = 0
    d.save()
    u=User.objects.get(username=uname)
    u.is_active = False
    u.save()
    return redirect( 'adminuserview')

def adminspview(request):

    j = serviceprovider.objects.filter(status="1")
    return render(request, 'adminspview.html',{'j':j})

def deletesp(request,uname):
    dp=serviceprovider.objects.get(uname=uname)
    dp.status = 0
    dp.save()
    uu=User.objects.get(username=uname)
    uu.is_active = False
    uu.save()
    return redirect( 'adminspview')

def adminindh(request):
    dh = recharge.objects.filter(category="dth")

    return render(request, 'adminindh.html',{'dh':dh})

def adminmob(request):

```

```

    mo = recharge.objects.filter(category="mobile")

    return render(request, 'adminmob.html',{'mo':mo})

def admincmpl(request):

    cm = complaints.objects.filter(r_status="1")

    return render(request, 'admincmpl.html',{'cm':cm})

def deletecmpl(request,id):

    cc=complaints.objects.get(id=id)

    cc.r_status = 0

    cc.save()

    return redirect( 'admincmpl')


def user_reg(request):

    return render(request, 'user_reg.html')

def logout(request):

    return render(request,'index.html')


def logincheck(request):

    if request.method == 'POST':

        username = request.POST['uname']

        password = request.POST['pswd']

        if userregistration.objects.filter(email=username).exists():

            usr=userregistration.objects.get(email=username)

            if usr.status == 1:

                user = auth.authenticate(username=username, password=password)

                if user is not None:

                    auth.login(request, user)

                    if User.objects.filter(last_name="serviceprovider",username=username).exists():

                        return render(request, 'sphome.html')

                    else:

                        return render(request, 'userhome.html')

            else:

```



```

        messages.info(request, 'invalid username/password')
        return render(request, 'login.html')
    else:
        messages.info(request, 'Your account is deactivated')
        return render(request, 'login.html')
elif serviceprovider.objects.filter(uname=username).exists():
    sp=serviceprovider.objects.get(uname=username)
    if sp.status == 1:
        user = auth.authenticate(username=username, password=password)
        if user is not None:
            auth.login(request, user)
            if User.objects.filter(last_name="serviceprovider",username=username).exists():
                return render(request, 'sphome.html')
            else:
                return render(request, 'userhome.html')
        else:
            messages.info(request, 'invalid username/password')
            return render(request, 'login.html')
    else:
        messages.info(request, 'Your account is deactivated')
        return render(request, 'login.html')
else:
    user = auth.authenticate(username=username, password=password)
    if user is not None:
        auth.login(request, user)
        return redirect('indexadmin')
    else:
        messages.info(request, 'invalid username/password')
        return render(request, 'login.html')
else:
    return render(request, 'login.html')

```

```

def login(request):
    return render(request, 'login.html')

def services(request):
    return render(request, 'services.html')

def aboutus(request):
    return render(request, 'aboutus.html')

def comreply(request,uname):
    c=complaints.objects.filter(uname=uname)
    return render(request, 'comreply.html',{'c':c})

def vwcomplaints(request):
    return render(request, 'sphome.html')

def care(request):
    sp= User.objects.filter(last_name="serviceprovider")
    return render(request, 'care.html',{'sp': sp})

def care1(request):
    if request.method == 'POST':
        uname = request.POST['uname']
        name = request.POST['name']
        compl = request.POST['ctype']
        dtls = request.POST['details']
        sp = request.POST['sp']

    cmpls=complaints(uname=uname,spname=sp,name=name,complaint=compl,details=dtls,replay="nu
ll",status="Pending")

```

```

    cmpls.save()

    messages.success(request,'Complaint posted successfully ')

    sp= User.objects.filter(last_name="serviceprovider")

    return render(request, 'care.html',{'sp': sp})


def dcharge(request):

    srv = serviceprovider.objects.filter(category="dth")

    return render(request, 'dcharge.html',{'srv':srv})

def dcharge1(request):

    if request.method == 'POST':

        uname = request.POST['uname']

        fname = request.POST['fname']

        cno = request.POST['cardno']

        sprv = request.POST['sl']

        amount = request.POST['amount']

        rad = request.POST['type']

        if(rad=='wallet'):

            a=str(amount)

            aa=int(a)

            m=wallet.objects.all()

            Idlist=[]

            for e in m:

                Idlist.append(e.id)

            maxid=max(Idlist)

            k=wallet.objects.get(id=maxid)

            am=k.c_bal

            amt=int(am)

            if(aa <= amt):

                nm=amt-aa

                # wl=wallet.objects.get(id=maxid)

```

```

        k.c_bal=nm

        k.save()

        dr = recharge(uname=uname,fname=fname,service_no=cno,
s_provider=sprv,category="dth",
amount=amount,date=datetime.now(),commision=int(amount)*30/100)

        dr.save()

        messages.success(request,'Your Rechage is Successfull.!!!!')

        return redirect( '/wallt')

    else:

        messages.success(request,'Not enough balance in your wallet, please add money to
proceed.!!')

        return redirect( '/wallt')

    if(rad=='stripe'):

        dr=
recharge(uname=uname,fname=fname,service_no=cno,s_provider=sprv,category="dth",amount=a
mount,date=datetime.now(),commision=int(amount)*30/100)

        dr.save()

        return redirect('/rechargepay')


def mcharge(request):

    srv = serviceprovider.objects.filter(category="mobile")

    return render(request, 'mcharge.html', {'srv':srv})

def mcharge1(request):

    if request.method == 'POST':

        uname = request.POST['uname']

        fname = request.POST['fname']

        mob = request.POST['mob']

        sprv = request.POST['sl']

        amount = request.POST['amount']

        rad =request.POST['type']

        if(rad=='wallet'):

            a=str(amount)

            aa=int(a)

```

```

m=wallet.objects.all()

Idlist=[]

for e in m:

    Idlist.append(e.id)

maxid=max(Idlist)

k=wallet.objects.get(id=maxid)

am=k.c_bal

amt=int(am)

if(aa <= amt):

    nm=amt-aa

    # wl=wallet.objects.get(id=maxid)

    k.c_bal=nm

    k.save()

    mob = recharge(uname=uname,fname=fname,service_no=mob,
s_provider=sprv,category="mobile",
amount=amount,date=datetime.now(),commision=int(amount)*30/100)

    mob.save()

    messages.success(request,'Your Rechage is Successfull.!!!!')

    return redirect( '/wallt')

else:

    messages.success(request,'Not enough balance in your wallet, please add money to
proceed.!!')

    return redirect( '/wallt')

if(rad=='stripe'):

    mob = recharge(uname=uname,fname=fname,service_no=mob,
s_provider=sprv,category="mobile",
amount=amount,date=datetime.now(),commision=int(amount)*30/100)

    mob.save()

    return redirect( '/rechargepay')

def paynow(request):

    if request.method == 'POST':

        amt = request.POST['amount']

```

```

cbal=request.POST['cbalance']
a=str(amt)
b=int(a)
s=wallet.objects.get(c_bal=cbal)
c=s.c_bal+b
ss=wallet(c_bal=c,ad_money=b)
ss.save()
return redirect('wallt')

```

```

def wallt(request):
    m=wallet.objects.all()
    Idlist=[]
    for e in m:
        Idlist.append(e.id)
    maxid=max(Idlist)
    k=wallet.objects.filter(id=maxid)
    return render(request,'wallet.html',{'k':k})

```

```

def payment(request):
    return render(request, 'payment.html')

```

```

def spdtls(request):
    return render(request, 'spdtls.html')

```

```

def ofrsave(request):
    if request.method == 'POST':
        ofr = request.POST['ofr']
        suname = request.POST['uname']
        name = request.POST['name']
        dtls = offer(ofr_dtls=ofr,spname=suname,sname=name)
        dtls.save()
        messages.success(request,'Offer added successfully ')
    return render(request, 'spdtls.html')

```

```

def delete(request,id):
    offr=offer.objects.get(id=id)
    offr.delete()
    messages.success(request,'Deleted successfully ')
    return redirect('/vwoffer1')

def vwoffer1(request):
    return render(request, 'spdtls.html')

def sphome(request):
    return render(request, 'sphome.html')

def spregister(request):
    return render(request, 'spregister.html')

def rehistory(request,uname):
    h = recharge.objects.filter(uname=uname)
    mfilter = rechargeFilter(request.GET,queryset=h)
    h=mfilter.qs
    return render(request, 'rehistory.html',{'h':h,'mfilter':mfilter})

def rerequest(request,suname,spname):

    com = recharge.objects.filter(s_provider=spname)
    myfilter = rechargeFilter(request.GET,queryset=com)
    com=myfilter.qs
    return render(request, 'rerequest.html',{'com': com,'myfilter':myfilter})

def userhome(request):
    return render(request, 'userhome.html')

```

```

def signup(request):
    if request.method == 'POST':
        first_name = request.POST['fname']
        last_name = request.POST['lname']
        mob = request.POST['mob']
        email = request.POST['email']
        uname = request.POST['email']
        pswd1 = request.POST['pswd1']
        pswd2 = request.POST['pswd2']
        if (pswd1 == pswd2):
            if User.objects.filter(username=uname).exists():
                messages.info(request, 'Username already exist')
                return render(request, 'user_reg.html')

            user = User.objects.create_user(username=uname, password=pswd1, email=email,
            first_name=first_name, last_name=last_name)

            user.save()

            usr = userregistration(fname=first_name, lname=last_name, mob=mob, email=email, status='1')
            usr.save()

            return render(request, 'index.html')
        else:
            messages.info(request, 'Password Mismatch')
            return render(request, 'user_reg.html')

    else:
        return render(request, 'user_reg.html')

def spsignup(request):
    if request.method == 'POST':
        res = request.FILES.get('pi1', True)
        if res == False:
            pass
        else:

```



```

    fs=FileSystemStorage()

    fs.save(res.name, res)

    first_name = request.POST['name']
    cate=request.POST['cate']
    website=request.POST['web']
    mob=request.POST['mob']
    email = request.POST['email']
    uname = request.POST['email']
    pswd1= request.POST['pswd1']
    pswd2 = request.POST['pswd2']
    if(pswd1 == pswd2):
        if User.objects.filter(username=uname).exists():
            messages.info(request,'Username already exist')
            return render(request, 'spregister.html')

        user = User.objects.create_user(username=uname, password=pswd1, email=email,
first_name=first_name, last_name="serviceprovider")

        user.save()

        sp=serviceprovider(uname=email,name=first_name,category=cate.lower(),
website=website,mob=mob,email=email,status='1',img=res)

        sp.save()

        return render(request, 'index.html')
    else:
        messages.info(request,'Password Mismatch')
        return render(request, 'spregister.html')

else:
    return render(request, 'spregister.html')

def serviceprofile(request,spuname):
    sp = serviceprovider.objects.filter(uname=spuname)
    return render(request, 'serviceprofile.html',{'sp':sp})

```

```

def spsave(request,suname):
    if request.method == 'POST':

        newname = request.POST['name']
        newweb = request.POST['web']
        newmob = request.POST['mob']
        newcat = request.POST['cat']

        sp = serviceprovider.objects.get(uname=suname)
        sp.name = newname
        sp.save()
        sp.website = newweb
        sp.save()
        sp.mob = newmob
        sp.save()
        sp.category = newcat
        sp.save()
        messages.success(request,'Your profile is updated')
        return redirect('serviceprofile',suname)
    else:
        return render(request,'serviceprofile.html',suname)

def spreply(request,spname):
    cm = complaints.objects.filter(spname=spname)
    return render(request, 'addcomreply.html',{'cm': cm})

def vwoffer(request,spname,sname):
    ofr= offer.objects.filter(spname=spname,sname=sname)
    return render(request, 'vwoffer.html',{'ofr':ofr})

def viewoffer(request):
    if request.method=='POST':
        val = request.POST['sl']

```

```

    ofr = offer.objects.filter(sname=val)

    return render(request,'vwoffer_user.html',{'ofr':ofr,'val':val})

else:

    return render(request,'mcharge.html')


def viewoffer1(request):

    if request.method=='POST':

        val = request.POST['sl']

        ofr = offer.objects.filter(sname=val)

        return render(request,'vwoffer_user1.html',{'ofr':ofr,'val':val})


    else:

        return render(request,'dcharge.html')


def mobofr(request,sname):

    mf=offer.objects.filter(sname=sname)

    return render(request,'vwoffer_user.html',{'mf':mf})


def vwoffer_user(request,sp):

    s=recharge.objects.filter(s_provider=sp)

    return render(request,'vwoffer_user.html',{'s':s})


def complaintvw(request):

    return render(request, 'complaintvw.html')


def comview(request,sname):

    co = complaints.objects.filter(sname=sname)

    return render(request, 'complaintvw.html',{'co': co})


def newfun(request,id):

    s=complaints.objects.get(id=id)

    return render(request, 'addcomreply.html',{'s': s})

```

```

def complaintsave(request,id,spname):
    if request.method == 'POST':
        rply = request.POST['reply']
        sta =request.POST['status']

        s = complaints.objects.get(id=id,spname=spname)
        s.replay = rply
        s.save()
        s.status= sta
        s.save()
        messages.success(request,'Reply Added Successfully ')
        return redirect('newfun',id)
    else:
        return render(request,'addcomreply.html')

def rechargepay(request):
    r=recharge.objects.all()
    Idlist=[]
    for e in r:
        Idlist.append(e.id)
    maxid=max(Idlist)
    k=recharge.objects.filter(id=maxid)
    return render(request,'rechargepay.html',{'k':k})

```