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Smart City

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I. INTRODUCTION

Cities have quite an impact in the economic development of a country, being the "platform" where many people live and work, where services are provided to citizens in a wide range of ways, and where local government officials have a close contact with citizens. It is only natural then that Information and Communication Technologies plays an increasing role in the life of both people and private and public entities that are part of a city. Mobile apps are becoming a new frontline for city services; Smartphone apps can centralize the point of contact for city resident and encourage collaboration in services in city. Smart City is your one touch window to all the information about City Municipal Corporation. This app will help you to become a smart citizen of the city. It includes an Administration and Emergency telephone directory, Information about Hon. Cooperators, Frequently Asked Questions and a whole lot of more information about City Municipal Corporation. You'll never feel lost once you have this app installed on your devices.

A. Key Features

1) Filing complaints
2) Information and contact number of MC Administration and Public Body
3) Frequently Asked Questions
4) One touch emergency numbers like police, hospital, ambulance, blood bank.

B. New Improvements

1) Certificates
2) Municipal Information
3) Citizens Participation
4) Social Media Links
5) Alert for Emergency
6) Feedback

II. LITERATURE REVIEW

A. Smart Inclusive Cities: How new apps, big data, and collaborative technologies are transforming immigrant integration.

Smart phones-mobile phones that provide internet access and connect users to applications (apps) that use the location of the phone to filter information- are most commonly thought of as a tool for convenience. But their potential to address social problems such as disaster response, public health, and public safety is attracting widespread attention. The corresponding opportunities for immigrant integration have not, thus far, been rigorously assessed. In theory, Smartphone's may offer an effective platform to engage hard-to-reach populations, since disadvantaged groups often use them to access the Internet instead of personal computers, and recent arrivals and temporary residents frequently use cell phones to keep in touch with family members at home.

B. Smart Cities Applications and Requirements : White Paper

Smart Cities gained importance as a means of making ICT enabled services and applications available to the citizens, companies and authorities that are part of a city's system. It aims at increasing citizens' quality of life, and improving the efficiency and quality of the services provided by governing entities and businesses. This perspective requires an integrated vision of a city and of its infrastructures, in all its components. A Smart City can be taken according to six characteristics: Economy, People, Governance, Mobility, Environment, and Living.

C. Existing System

1) Searching the specialized person.
2) It is time consuming.
3) Difficult to get all information.

D. Problem Statement

In Software Development a problem statement is a clear description of the issues, it includes a vision, issue statement, and method used to solve problem.

E. Statement:

There is only one touch application for smart city. In that application is there is detailed information about the Smart city. The manual procedure to getting the Death, Birth and marriage certificate it is very time consuming for citizens. To deal with this problem we are going to developing an android application related to getting and enrolling the death, Birth and marriage certificates online manages. We are design one touch application this is our main motive. And there is other links are providing to the users in our application. Even though there is availability of facilities related to government it doesn't fulfill to users all requirements. So to ensure this we are developing new concept regarding to removing existing manual handling.

F. Objectives

1) One touch application to avoid manual and time consuming process.
2) Initiative application regarding to develop application for smart city.
3) Providing the review system.

G. Scope

1) Easy to get information about city.
2) User can find any information only click a button due to this application.
3) Helpful in the time & manual work reduction

H. Modules

1) Log-in
2) Registration
3) Certificate
4) Fedback

III. METHODOLOGY

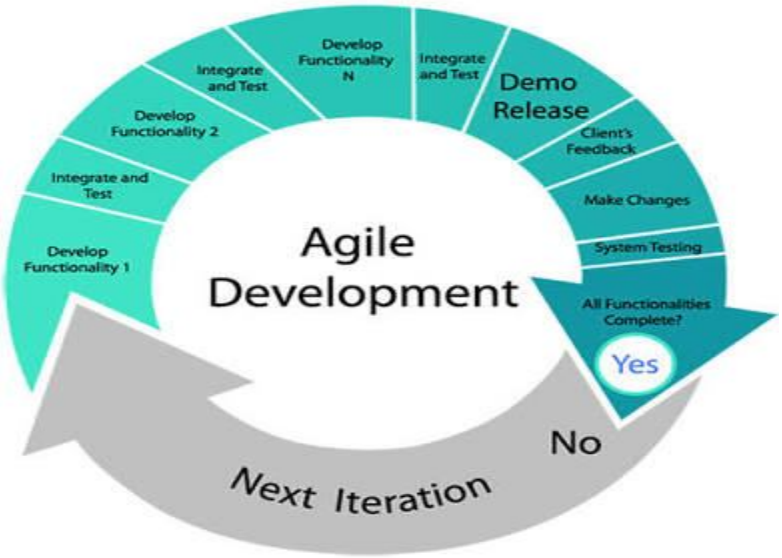

Fig. (1). Agile Software Development

Agile Software Development is a conceptual framework for undertaking software engineering projects. There are a number of agile software development methodologies.Most agile methods attempt to minimize risk by developing software in short time boxes, called iterations, which typically last one to four weeks. Each iteration is like a miniature software project of its own, and includes

all the tasks necessary to release the mini-increment of new functionality: planning, requirements analysis, design, coding, testing, and documentation. While iteration may not add enough functionality to warrant releasing the product, an agile software project intends to be capable of releasing new software at the end of every iteration. At the end of each iteration the team reevaluates project priorities.Agile methods emphasize real time communication, preferably face-to-face, overwritten documents. Most agile teams are located in a bullpen and include all the people necessary to finfish the software. At a minimum, this includes programmers and the people who define the product such as product managers, business analysts, or actual customers. The bullpen may also include testers, interface designers, technical writers, and management.

IV. TECHNICAL SPECIFICATION

Technical feasibility centers on the existing computer system i.e. hardware, software etc. Modules require database management that is all easily available with extensive development support through manuals and blogs. This system is technically feasible as it does not require special software or hardware by user to use this system.
The technical concepts that we are using to developing our application i.e. OTP, Payment Gateway.These concepts are very relevant to developing secured application like as online banking.

A. Software requirements

1) Android studio/Eclipse
2) Java(jdk 1.7)
3) Android SDK

B. Hardware requirement:

1) 2 GB RAM
2) 80 GB Hard disk

V. SYSTEM DESIGN

A system designing in terms of software engineering has its own value and importance in the system development process as whole. Systems design is the process of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements. Systems design could be seen as the application of systems theory to product development.

A. System Architecture

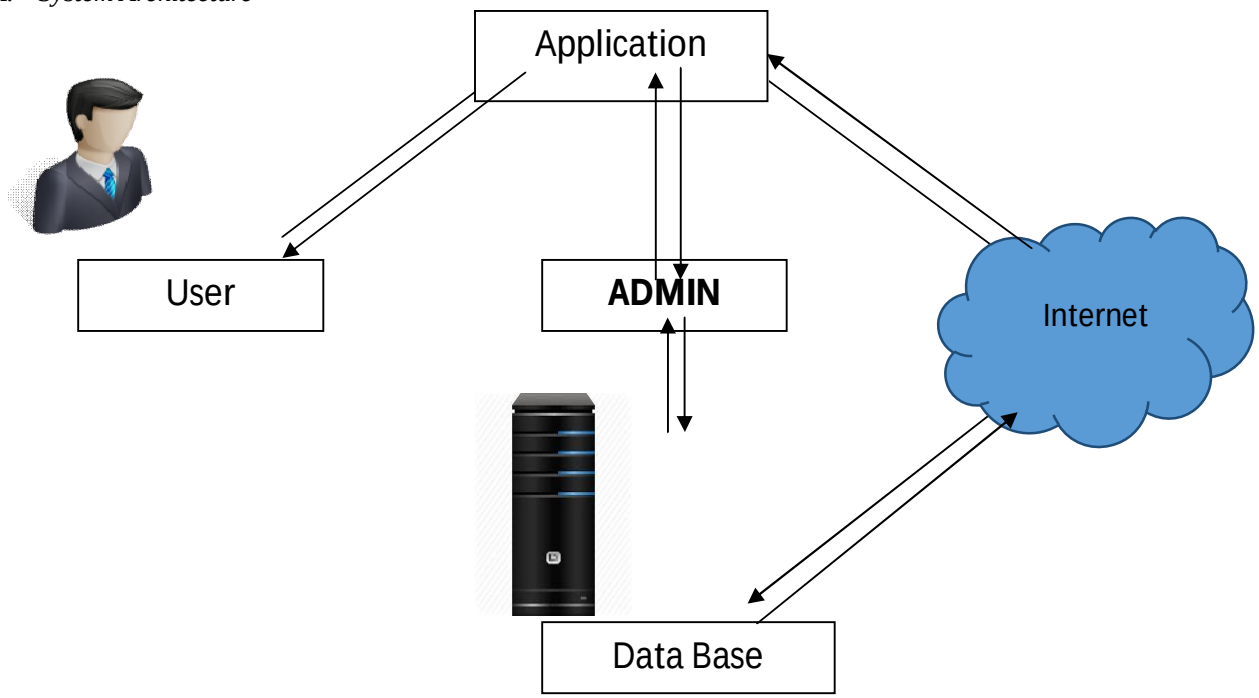

Fig. (2).System architecture

System architecture is the conceptual model that defines the structure,behaviour, and more views of a system. An architecture description is a formal description and representation of a system, organized in a way that supports reasoning about the structures and behaviors of the system.

B. UML Diagrams

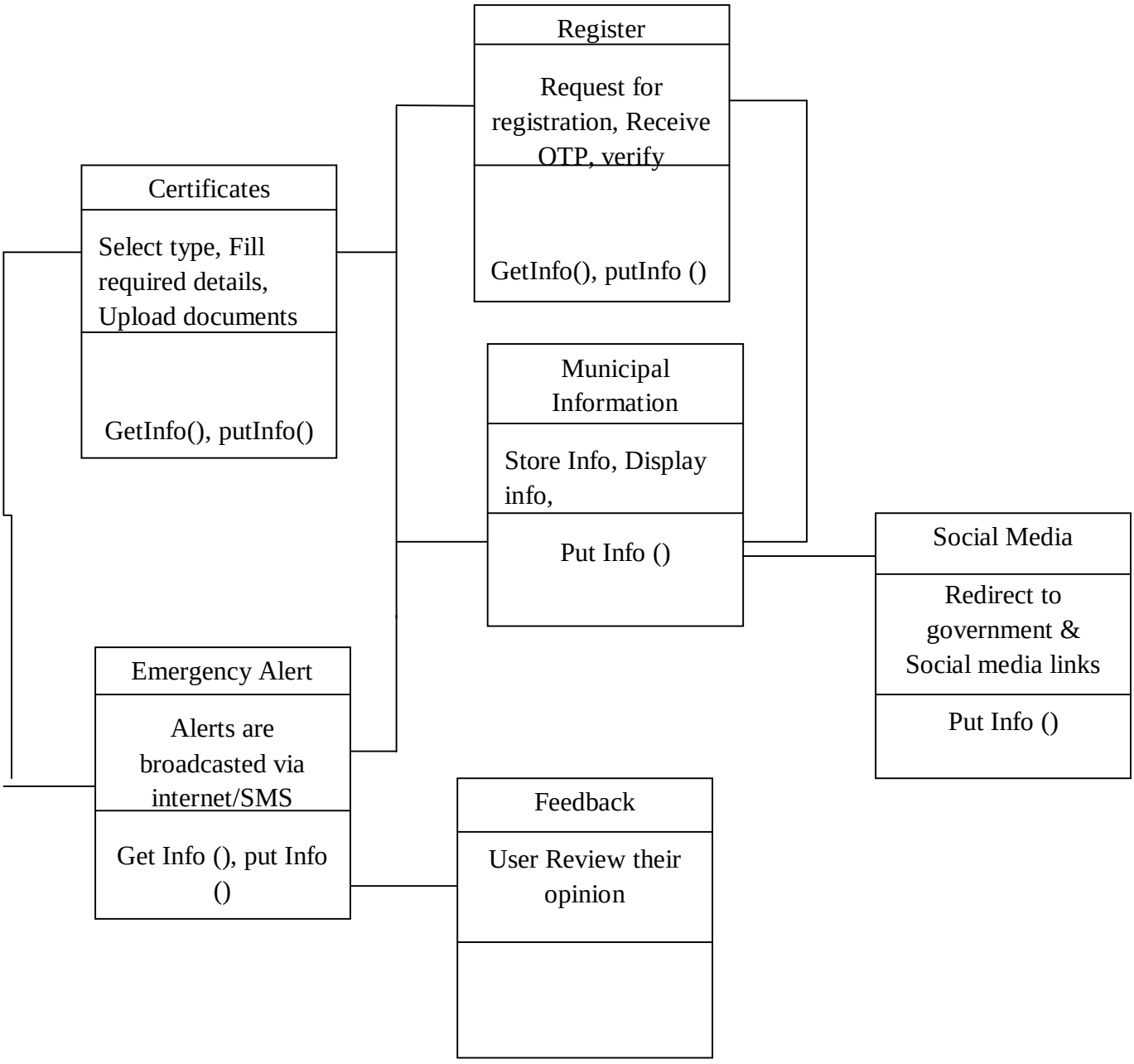

Fig. (4). Class Diagram

UML stands for Unified Modeling Language which is standard visual modeling language intended to be used for

1) Modeling business and similar processes,
2) Analysis, design, and implementation of software-based systems.

UML is a common language for business analysts, software architects and developers used to describe, specify, design, and document existing or new business process processes, structure and behavior of artifacts of software systems.

In software engineering, a class diagram in the UML is the type of static structure diagram that describes the structure of a system by showing the systems classes, their attributes0, operations (or methods), and the relationships among objects. The class diagram is the main building block of object oriented modeling

C. Activity Diagrams

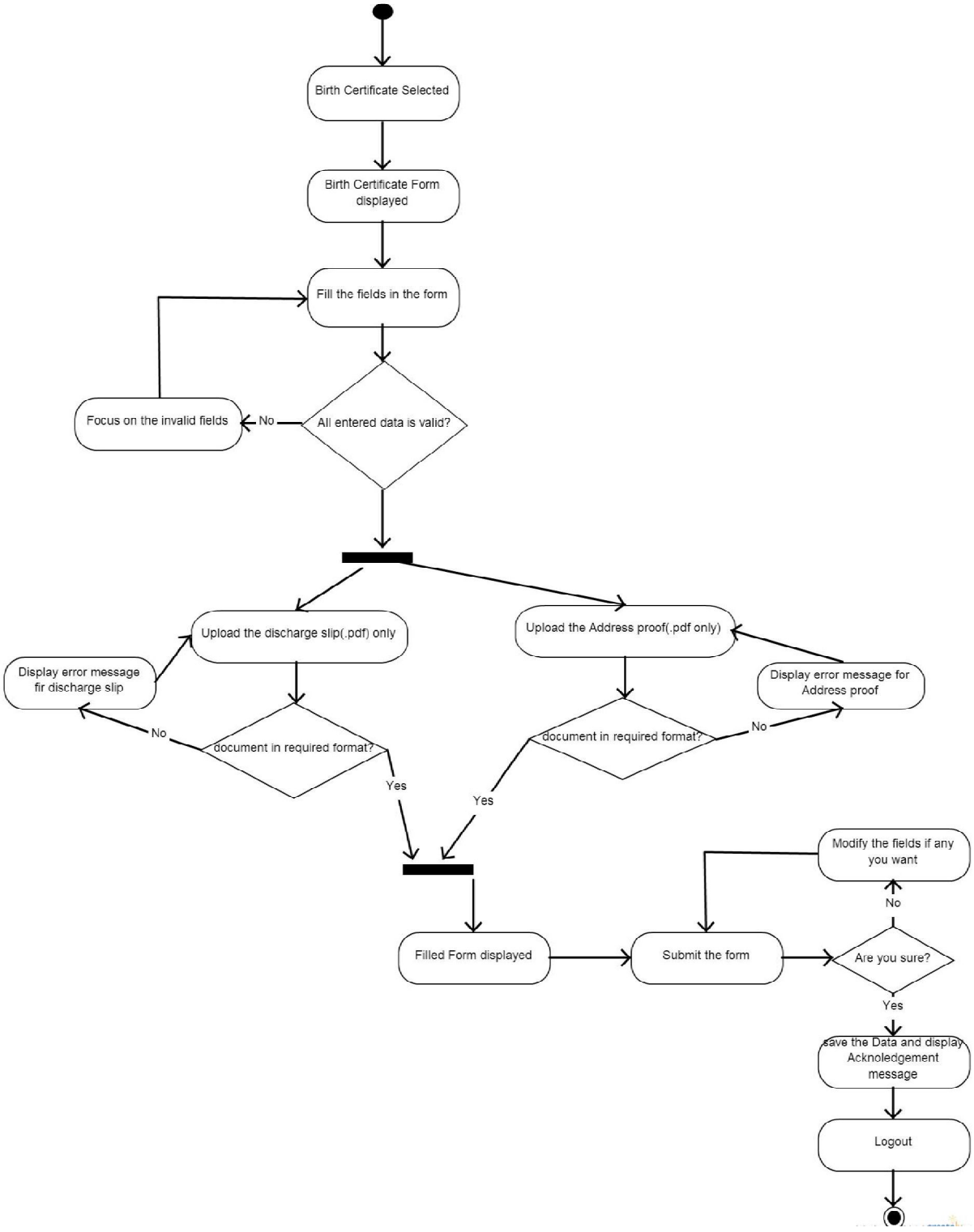

Fig. (8). Activity Diagram

Activity diagrams are graphical representation of workflows of stepwise of activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams are intended to model both computational and organizational processes. Activity diagrams show the overall flow of control. Activity diagrams may be regarded as a form of flowchart. Typical flowchart techniques lack constructs for expressing concurrency. However, the join and split symbols in activity diagrams only resolve this for simple cases; the meaning of the model is not clear when they are arbitrarily combined with decisions or loops.

VIII. CONCLUSION

The concept of Smart Cities gained importance in the last years, as a means of making services and applications available to the citizens, companies and authorities that are part of a city's system. This perspective requires an integrated vision of a city and of its infrastructures, in all its components: it has to incorporate a number of dimensions that are not related to technology, e.g., the social and political ones. A Smart City can be taken according to six characteristics: Smart Economy, Smart People, Smart Governance, Smart Mobility, Smart Environment and Smart Living. The complete android app which will provide information services to the citizens regarding getting online certificates. System will keep update to the citizens with information they need.

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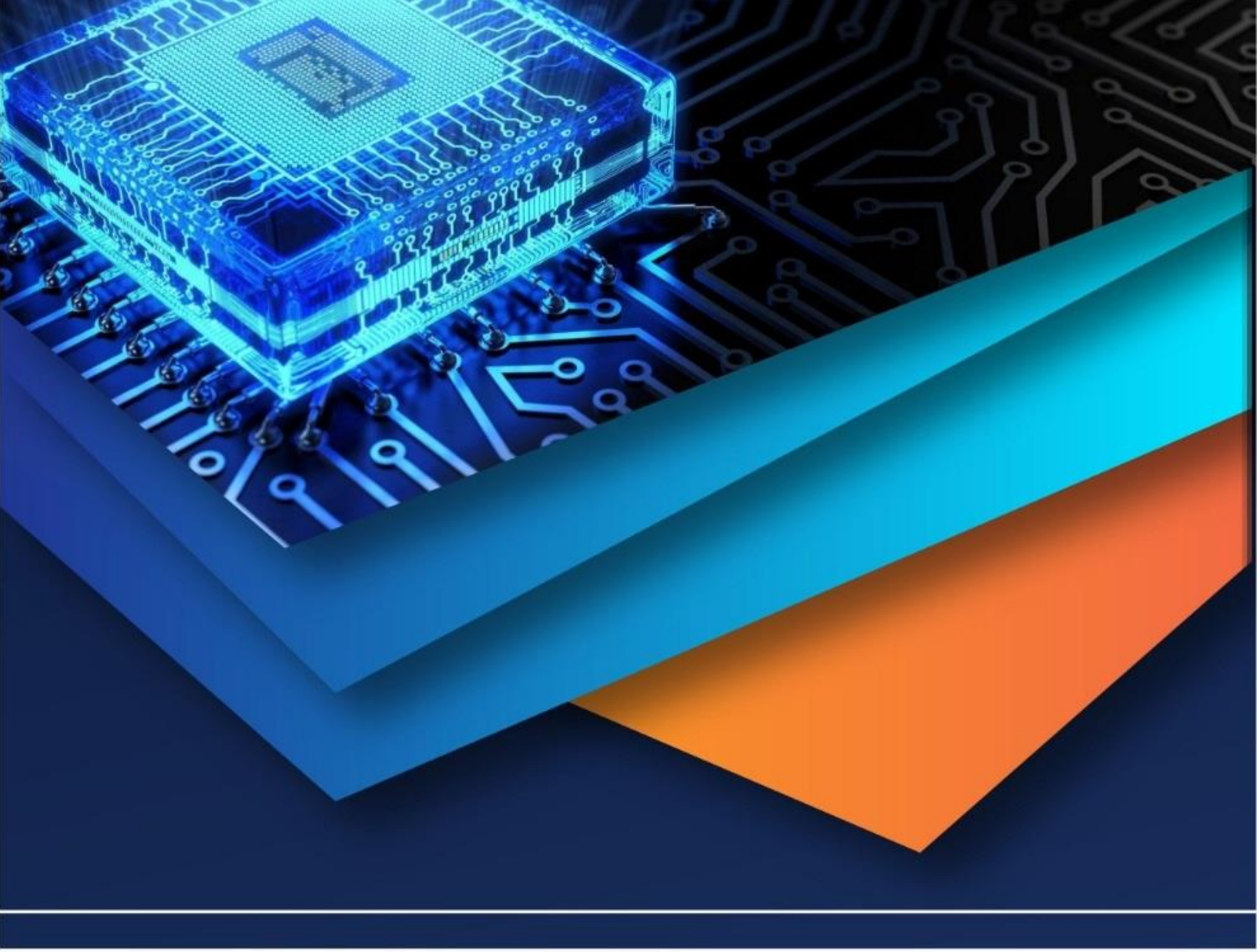

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