Kathford International College of Engineering and Management

Balkumari, Lalitpur

A

Project Proposal

on

Gadget review system (Gadget search)

Submitted to:

Department of Information Technology

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In partial fulfillment of the requirement for the Bachelors of Computer Application

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Abstract

A gadget review system is a web based platform that help user purchase a gadget. There are many gadgets like mobile, laptops, smartwatch etc. in market this system reviews those gadgets and gives a specific glide line to purchases the gadget that the user desires. In this system features like rating the reviewed gadget, an e-commerce link for purchasing the gadget and specification of those gadget are provided. This system will use the agile methodology for system development model. Programming language like HTML, CSS, JavaScript are being used to develop frontend of the website and as for the backend PHP and MYSQL are going to be used

Keywords: user, gadget review system, gadgets.

1. Introduction

A **gadget review system** is web platform that will allows users to see reviews and rating of various gadget such as smartphone, laptops, tablets and other tech related devices and provide a clear concept about the gadget they want to purchases.

This system will help user to make informed decision when purchasing gadget by providing them with detailed information about the product they are interested in. a gadget review system generates different gadgets review which are available in market with their detailed specification and usages.

2. Problem Statement

With the growing number of gadget in market people are more confused than ever for buying new gadgets from market. Many people don't know about the features and functionality of the gadget that they want to purchases. Some even don't have budget to buy what they want and what they can buy from their limited budget. Many users don't have a precise information for buying gadgets. In many cases user doesn't get full extension of the features that they can get from the limited budget that they have.

3. Objectives

The objectives of this project are:

- To create a gadget review system

- To provide a platform for users to search for gadgets and read reviews and ratings.

- To make a user more understanding of gadget pricing before purchasing a gadget

4. Scope and Limitations

Scope.

- Ranking system: There will be ranking based system to help choose user more easily.
- E-commerce link: This system will contain an e-commerce link where a user can visit the e-commerce platform to buy the gadget they reviewed.
- Pricing: user can look the current market price of the gadget

Limitations

- This system contains limited numbers of gadget.
- This system lacks in standardization for gadgets

5. Literature Review

The idea for this system came from a well rewound website named **gadget byte Nepal & TechRader** that helps its user to be well informed about the gadgets that they want to purchases.

- GadgetByte Nepal: GadgetByte is the Leading Tech Review News Portal of Nepal that gives the users information, tools, and advice that will help them decide (with Buy Guides and Tech Guides) get the most out of the Tech.[1]
- The world of technology has never been more exciting -- and TechRadar helps up to 70 million people around the globe find the tech they love every month. Our world-class experts live and breathe the latest technology, and like a trusted friend or advisor, we won't talk down to you or baffle you with jargon, instead offering clear, unbiased, useful advice, as well as tips, tricks, and secrets culled from our rigorous in-depth testing.[2]

6. Methodology
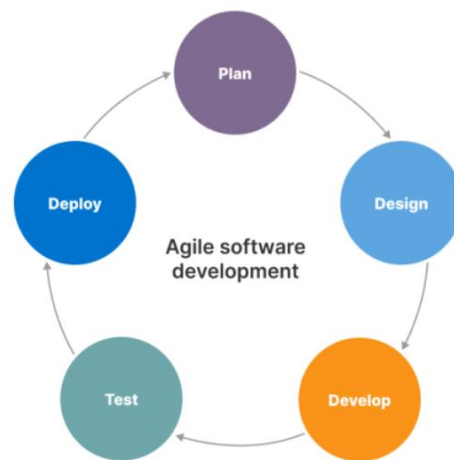
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Figure 1: Agile Methodology

Agile methodology is one of the popular model for software development which is flexible and mostly focuses in adaptability that comes with change in nature of software when needed in future. The reason for choosing agile methodology for this system is to make change feature and product easily in near future. Gadget review system need to update its product frequently so agile methodology helps for frequent changes which will occur in future.

6.1 Requirement Identification

The requirement identification for the proposed system are described below:

6.1.1 Requirement Collection

For this project the requirement collection is done from different website that are available in internet. Website like gadgetbyte Nepal, gadgetsinnepal etc. gave a clear vison of what are the tools, technique and features are needed for this system development. These system uses many features like news portal, advertisement of gadgets, updating their reviews in specified time etc.

6.2 Feasibility Study

A feasibility study is a study of a project which evaluates all factors and material which are feasible or not in order to develop the system. Some of the feasibility study that are conducted for developing this system are mentioned below:

6.2.1 Technical Feasibility

Technical feasibility determines the hardware and software component required for the development of this system. This project doesn't require many hardware and software component one laptop and some free software like visual studio code(IDE) can make this system.

6.2.2 Operational Feasibility

Operational feasibility studies the developer tools and technique that they have or they need to use. For this project developer need to have a basic knowledge of HTML, CSS, JavaScript for frontend and as for backend they need PHP, MYSQL to complete the system.
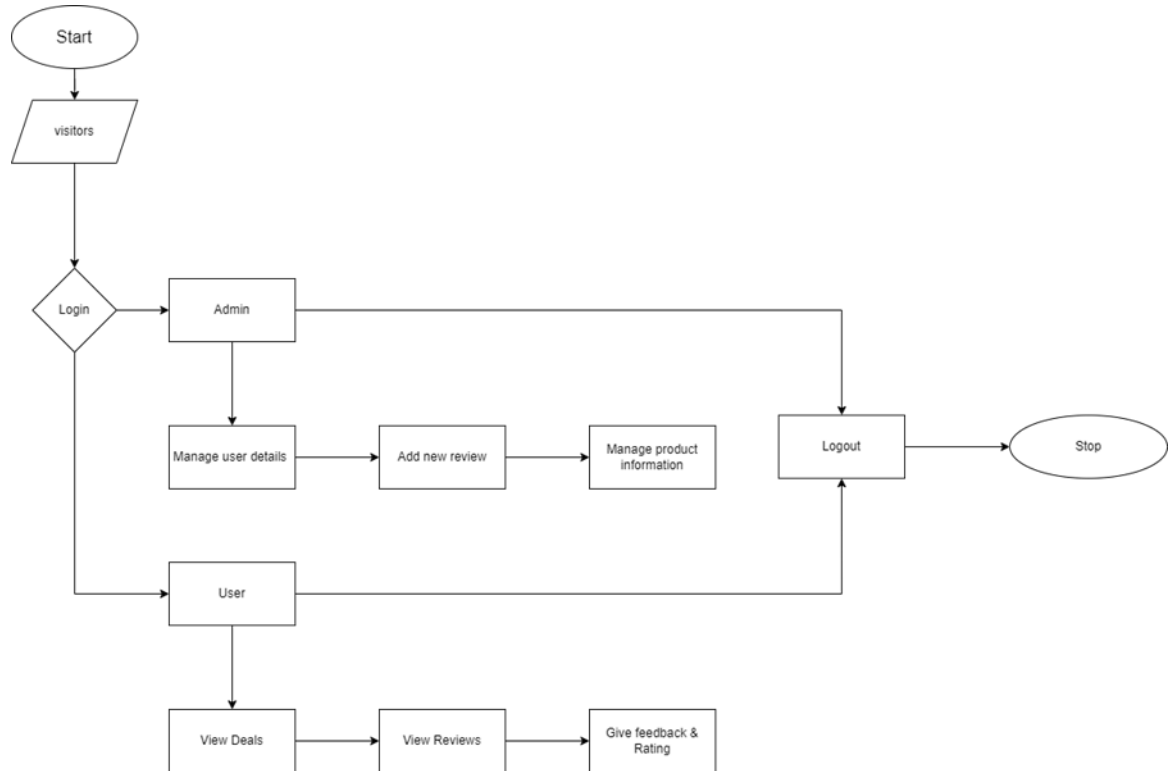
6.2.3 Economic Feasibility

Economic feasibility studies the if the proposed system is economically feasible or not. The system that is going to be developed doesn't required any economical support, this system can easily be developed by free software that are available in the web browser.

6.3 System Flow Diagram:

Flowchart diagram:

Figure 2: Flowchart Diagram for Gadget Review System

Flowchart diagram is a basic diagram which shows the flow of process in a system. At first, user/admin need to login into the system. If it is a user, they will be able to view deals, reviews and details of various gadgets. If it is an admin, they will be able to manage the users details and update the gadgets details as well. Later, they both can logout from the system.

7. System Analysis

System analysis is a process of finding facts and tools that are going to be used while developing a system. It is necessary before developing a system.

There are many systems related to this proposed project in web browse that gives reviews about gadget. But many of those are not reliable when it comes to its user interface as well as while providing a genuine review of a gadget due to the large no of gadget that are available in market but this propose system will have many components and features that the other website don't have like rating, product deals etc. This system also provides the its user to have more detailed information about gadget. Many review systems don't have a login interface but the proposed system will have a login function.

7.1 Use Case Diagram (Expected)
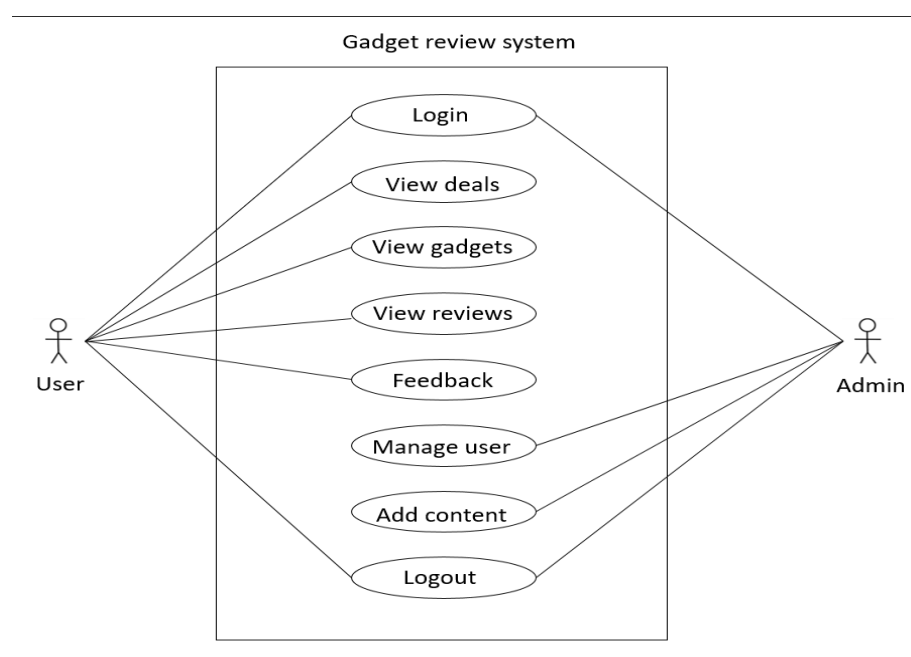
Figure 3: Use Case Diagram for Gadget Review System

In this system there are two parties that first need to login to access to website they are the users who can see review of gadgets, deals that they can get in particular time and give their feedbacks. And another is admin who can change contents of the system that they are developing after both finishes their work they can logout from the system.

7.2 Context Diagram (Expected)
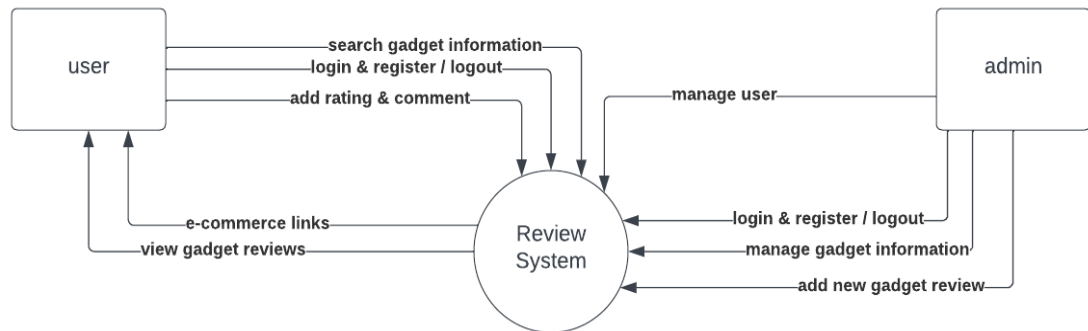
Figure 4: Context Diagram for Gadget Review System

In the above context diagram for Gadget Review System the system starts with user login in to website then, they can search for the gadgets that they want to purchases or looks the deal that are provided in home page of website. The website provides reviews of different gadget and their e-commerce link if they want to purchase on site. And in admin part they manage the user information and provides gadgets reviews and information while managing all the gadget in the website.

7.3 E-R Diagram (Expected)
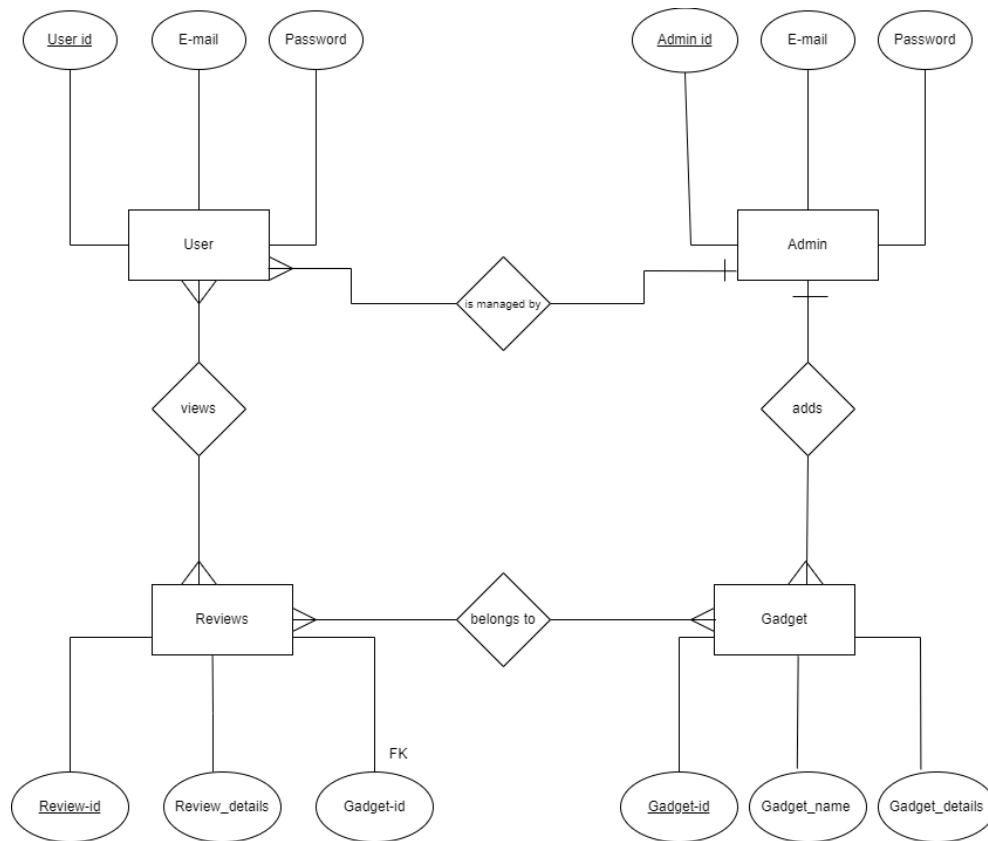
Figure 5: E-R Diagram for Gadget Review System

In the above E-R diagram which is done for the development of gadget review system shows that there are 4 main entities and several other attributes for those entities.

At first user provides its information to website and gives permission to get access in the website. The above diagram shows the relationships between the data elements in database. There will be different types of relationships between the entities like one to one, one to many and many to many. It shows how the data elements and entities are connected with each other.

8. Testing and Verification

In the process of completing the project the system will be tested for its functionality for reviewing gadgets. Testing of user interface so that the user can get a better experience from the system. Security testing so that user doesn't have to fear of losing data. Verification like login and register will be implemented for user.

9. Estimated Time Schedule

For time estimated this project is proposing a Gantt chart. A Gantt chart is the visual representation of a project time schedule that shows the beginning and end date of the proposed project. In the top of the chart there is a time scale and in the left side there are the task to be done.the inside the chart showe the duretation that is going to take to make the project

GANTT CHART

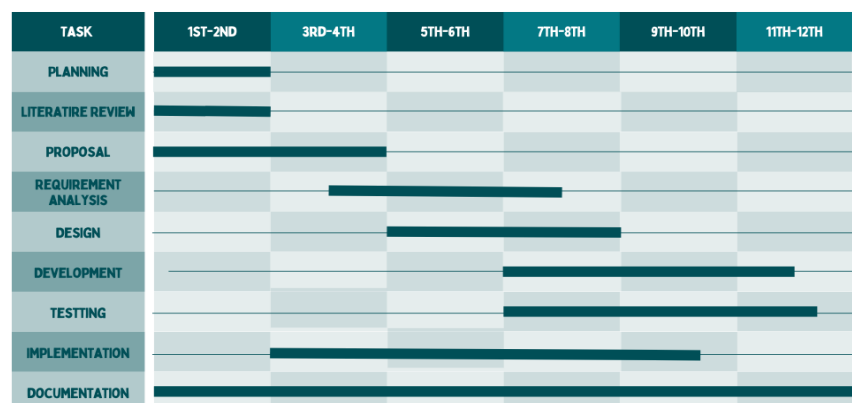| TASK	1ST-2ND	3RD-4TH	5TH-6TH	7TH-8TH	9TH-10TH	11TH-12TH
PLANNING	██					
LITERATIRE REVIEW	██					
PROPOSAL	████					
REQUIREMENT ANALYSIS		████				
DESIGN			████			
DEVELOPMENT				█████		
TESTTING				█████		
IMPLEMENTATION		█████				
DOCUMENTATION	██████████████					

Figure 6: Project Schedule (Gantt's Chart)

10. Expected Outcome

On the completion of the project there will be a system where a user can review the gadget that they want to purchase and have a detailed knowledge about the gadget that they want to purchase i.e., gadget review system. This system will also have a part were a user can see the deals that they are getting in particular time. If they want to purchase that gadget there will be an e-commerce link for purchasing that gadget.

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11. References

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