

# LEAPFROG TECHNOLOGY

## SOFTWARE REQUIREMENTS SPECIFICATION

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### FOR NEPALKHABAR WEBSITE

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# INTRODUCTION

The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS with purpose, scope, definitions, acronyms, abbreviations, references and overview of the SRS. This section intends to provide the reader with the background information about the web application “Nepal Khabar”.

## PURPOSE

The main purpose of this document is to include the functional and non-functional requirements needed to design, develop and deploy the news portal web application “nepalkhabar”. Also gathering ideas about the overall system and the requirements needed for the software to become a success is carried out. It also provides clear guidelines to designers and developers during software development. Similarly it describes the various perspectives of the users, team and other stakeholders regarding the software and its features.

In short the purpose of this SRS document is to provide a detailed overview of the software product, its parameters and goals.

## SCOPE OF THE PROJECT

The name of our application is “nepalkhabar”.

The main aim of this application is the simulation of news providing medium like newspapers, daily magazines and others. This application is designed with the intension of providing authentic national and international news about politics, sports, business, health, technology and others to the users. Besides this, job vacancies, information about Lost and found items and commercial advertisements may also be included.

Once deployed this application will provide an effective online reporting of authentic news. It will be a good online source of information and sometimes entertainment as well.

## DEFINITION, ACRONYM AND ABBREVIATIONS

### ABBREVIATIONS

ABBREVIATIONS	FULL FORM
SRS	Software Requirements Specification
HTML	Hyper Text Markup Language
JS	Java Script
CSS	Cascading Style Sheet

## **DEFINITIONS**

### **SRS:**

A software requirements specification (SRS) is a comprehensive description of the intended purpose and environment for software under development. The SRS fully describes what the software will do and how it will be expected to perform.

### **Users:**

Users are the entities who make use of the application. There are two types of users of our application and they are:

- a. General user
- b. Administrator

### **Hyper Text Markup Language:**

It is the main mark up language for creating web pages and other information that can be displayed in a web browser.

### **Cascading Style Sheet:**

It is a style sheet language used for describing the presentation semantics(the look and formatting) of a document written in a markup language.

### **Java Script:**

JavaScript is the scripting language of the Web. It is used to add functionality, validate forms, communicate with the server, and much more.

## **REFERENCES**

<http://www.math.uaa.alaska.edu/~afkjm/cs401/IEEE830.pdf/>

## **DOCUMENT CONVENTION**

The following conventions have been used in this document.

Font: Times New Roman

Size 16 For Main Headings

Size 14 For Sub Headings

Size 12 For The Text

Words in bold are important terms, and have been formatted to grab the attention of the reader.

## INTENDED AUDIENCE AND READING SUGGESTIONS

This document can be used by :

Users

Developers

Project managers

Testers

Documentation writers.

Quality Analyst

Clients

## OVERALL DESCRIPTION

### PRODUCT PERSPECTIVE

The news portal “nepalkhabar” is nearly similar to other existing news portal but this site is more user friendly than other existing systems. The categorized news with top headlines are user oriented. Filtering most hit news from different category is also useful for news reader who wants to update with what other people like to read.

Use Cases

*Administrator's Use Case:*

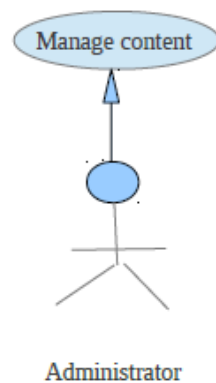


Fig: Administrator use case

*Normal User Use Case:*

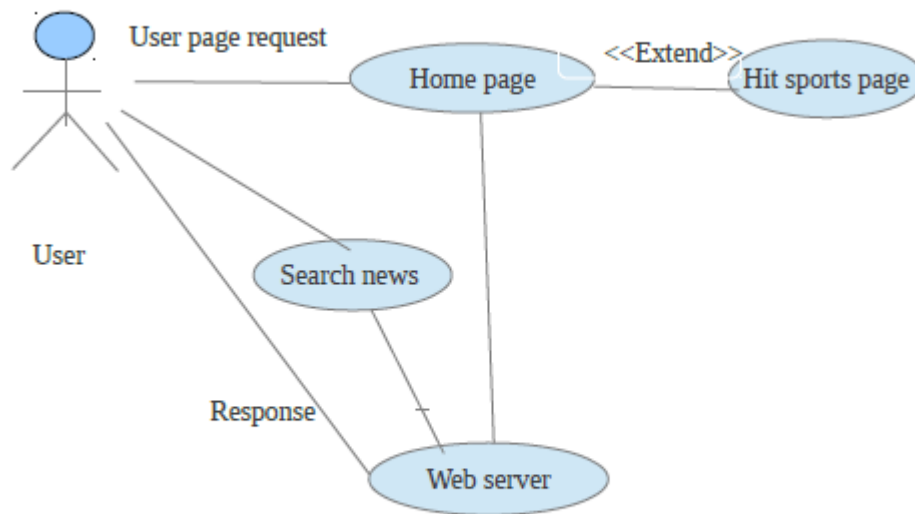


Fig: Normal user use case

## USER INTERFACES

Home Page:It contains the top latest news from all categories.

Specific Category Page :It contains top latest news about specific categories like Sports, Entertainments, Business and other common categories as such.

Specific News Page: This section contains news about the selected topic.

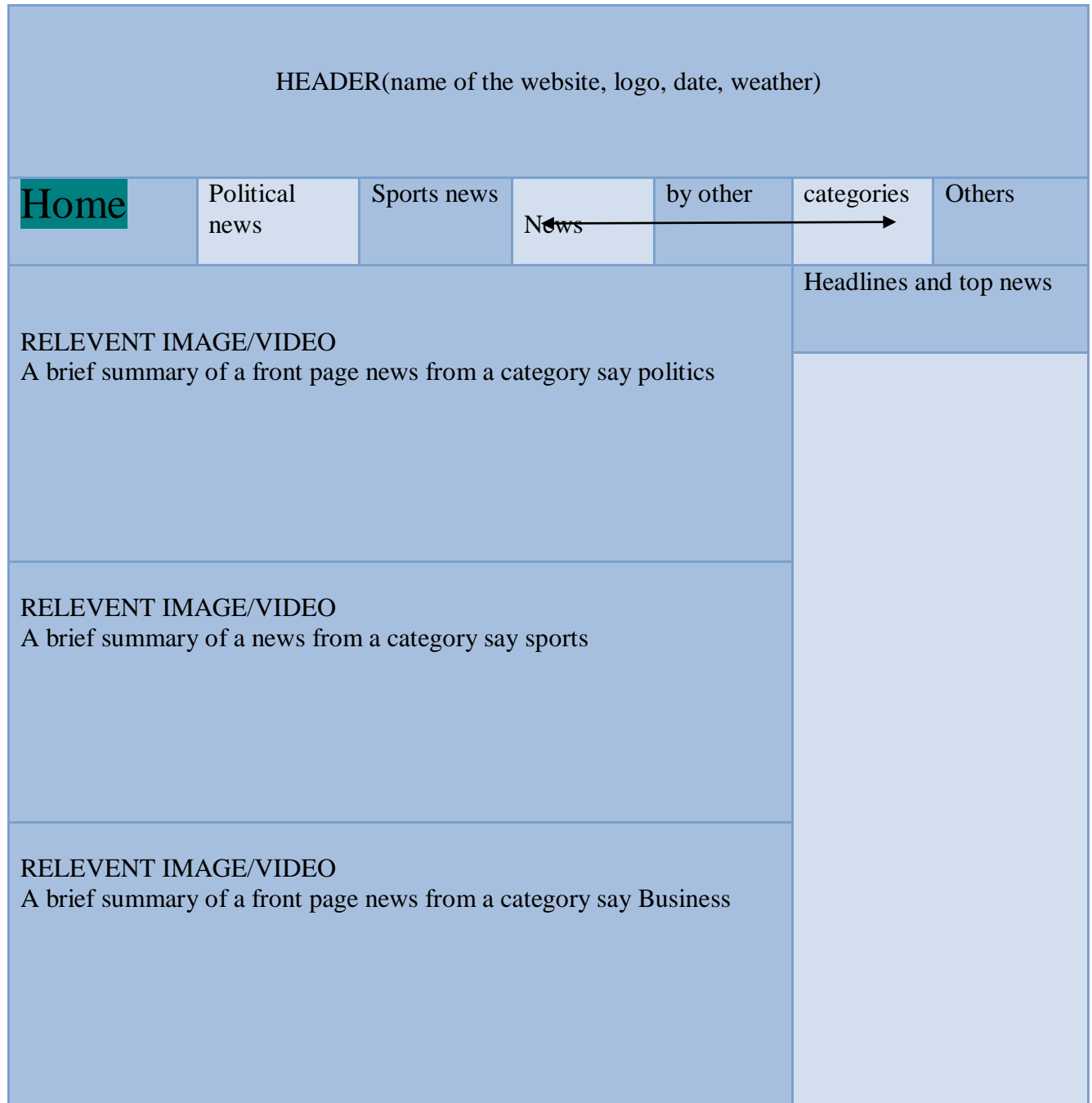


Fig: Landing/Home Page

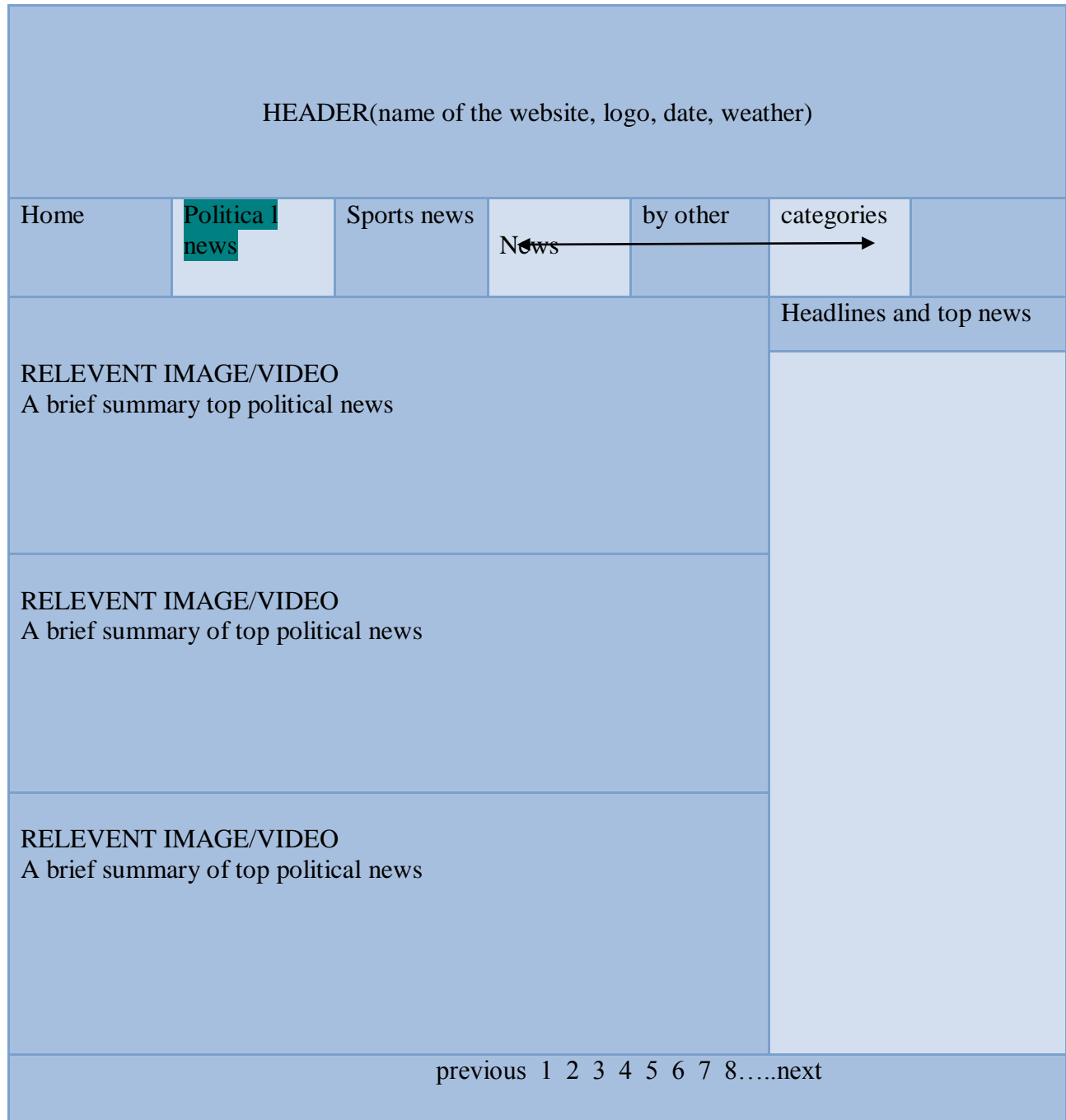


Fig: Specific Category Page



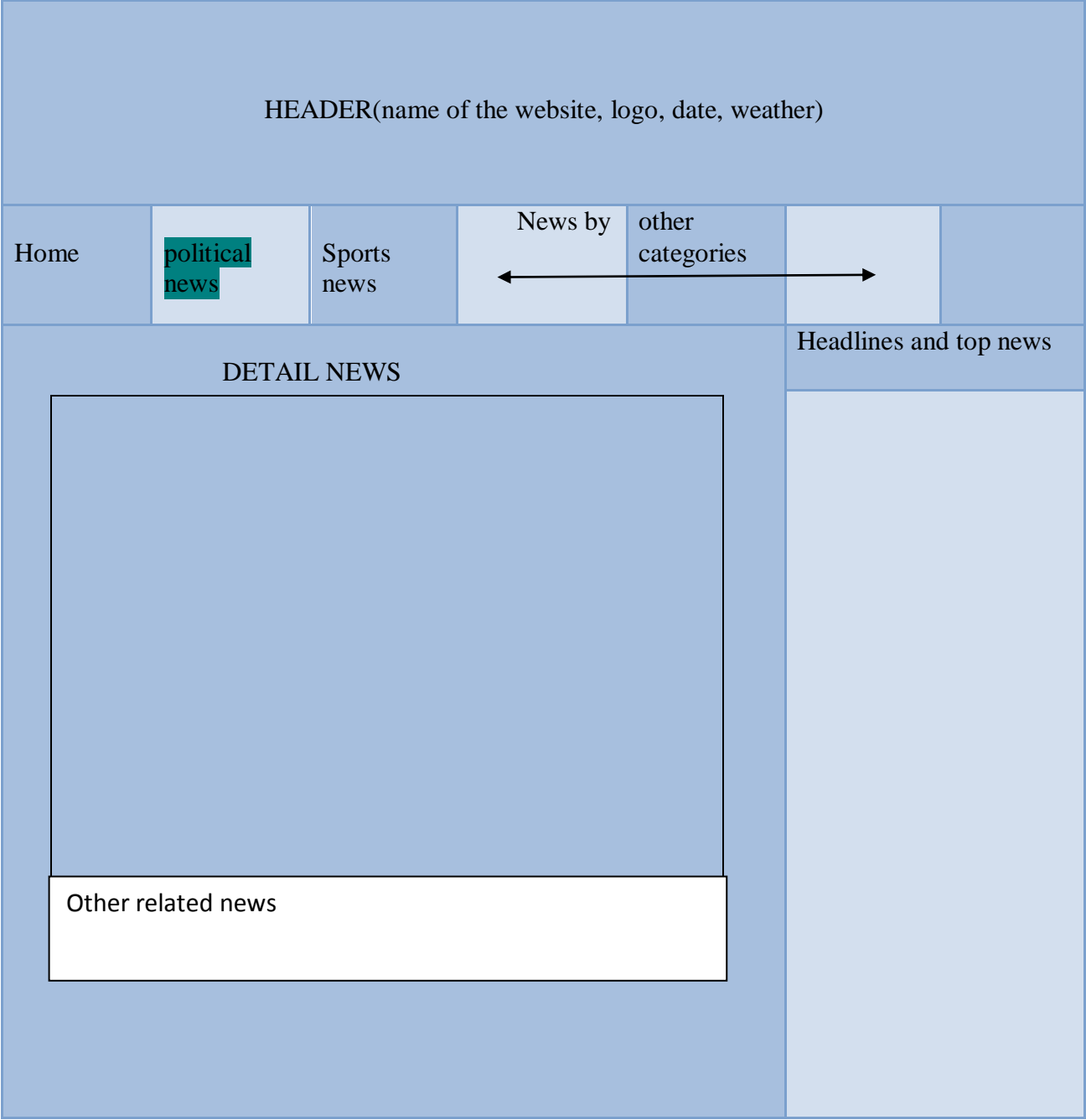


Fig: Specific news page

## **HARDWARE INTERFACES**

Keyboard, Mouse ,Monitor, modem

## **SOFTWARE INTERFACES**

Client side Requirement: Latest web browsers which support almost all the features of CSS3 and HTML5 .

Server side requirement: LINUX Operating system , MySql database , Web server.

## **COMMUNICATIONS INTERFACES**

Internet.

## **OPERATIONS**

There are not any normal and specific operations required.

## **PRODUCT FUNCTIONS**

The main function of the application is fast reporting of authentic news to the anyone visiting the website. News are divided into different categories like Political, Sports, Business, Entertainment and others as such. Users can directly select any news from the special category and can also view the related news. More recent news are listed in the right bar of site, so he can directly go thorough links without going to home page to find out what the top listed recent news are.

## **USER CHARACTERISTICS**

*Normal user* : Any user of any education level, any experience and any technical expertise can view news on this site.

*Administrative user* : Administrators performs activities like managing and adding news contents.

## **CONSTRAINTS**

HTML5 , My Sql , CSS3 and Java Script shall be used during the implementation.

## **ASSUMPTION AND DEPENDENCIES**

In the long run if real time data is fetched from other sources then security, safety constraints and other constraints may become wider. User should use browser which supports HTML5 and CSS3.

## **SYSTEM FEATURES**

### **SEARCH**

A searching mechanism should be embedded in the application which should facilitate the user to find the desired news. Autosuggestion while searching should be implemented.

### **ADMIN LOG IN**

In order to manage the website , administrators should be able to log into the system .However other users apart from the administrators has no facility to log in to the system.

## **NEWS MANAGEMENT**

### **UPDATE NEWS**

This application requires rigorous update of content as news change everyday. The administrator has the sole authority to update the news.

### **ADD NEWS**

This application requires rigorous addition while updating news. The administrator has the sole authority to add more news.

## **DELETE NEWS**

This application requires rigorous deletion of content while updating news. The administrator has the sole authority to delete old news.

## **PUBLISH NEWS**

The administrator has the sole authority to publish the news on the website

## **NON-FUNCTIONAL REQUIREMENTS**

### **PERFORMANCE**

Large number of users should be able to view this website. Or in other words the website should operate smoothly during heavy traffic.

### **SECURITY**

In order to change, delete or add news in the website, administrator should login.

### **AVAILABILITY**

System should always be available when visited

### **PLATFORM COMPATIBILITY**

System should be compatible with all the platforms that support latest versions of web browser.

## **LEGAL ISSUES**

This website should publish authentic news which should not exploit the reputation of any company or individual. Similarly this website should not breach any laws and policies maintained by the government.

## **APPENDIX**

### **DESCRIPTION OF THE PROBLEM**

There are many news related website that have been launched in our country. However there has always been a problem of authenticity of the news provided by such websites. Also fast reporting of each and every news is also challenging. We have had situations where the immediate reporting of our national news was done by BBC or other international news reporting medias and by any national news reporting media after a fair amount of time. Considering these challenges in mind, we are planning to develop a website that will provide fast reporting of authentic news.