**SYSTEM REQUIREMENT SPECIFICATION**

**FOR**

**News Website**

SELECTED OPTIONS:

Backed-Tech: Django framework and DRF

Scrapy for extracting news

Author: Parth Desai

**Software Requirements Specification Document**

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1. **INTRODUCTION**

**1.1 Purpose**



Today's world relies entirely on electronic media for its day-to-day activities. People do not have time to read newspapers or to watch or listen to the news on television or radio. In today's competitive environment, people need to be updated on a daily basis. The majority of individuals obtain knowledge about the world around them via the internet, which is quick, easy to use, and trustworthy. The goal of an Online News Website is to automate the existing manual method using computerized equipment and full-fledged computer software to meet their needs.

**1.2 Scope**



The application being produced is called a News Web Application. Exite.com and Yahoo.com are two major news portals that offer important alternatives to the problem. All content is organized into categories and kept in a database. The categories may be readily updated for browsing, and the UI is self-organized to highlight top-stories. A role-based system, similar to that of a real newspaper, can be used to manage software. The role-based system focuses on page editors and managers among other things, to drive applications in a safe mode. The admin panel allows you to post articles and news. All articles are written by one of then role who have access and published. Websites for reference: centraltimes.in, indianexpress.com, and hindustantimes.com

1. **The Overall Description**

**2.1 Product Perspective**



This system provides a simple solution for news distributors to regulate information with a simple system, as well as a simple way for customers to obtain news and use a web application for various activities such as searching, following, and so on. This proposed system can be used by anybody and does not require any kind of computer knowledge, experience, or technical ability. However, it will be most useful if the user has a good understanding of how to operate a computer.

**2.2 User Characteristics**



There will be four types of users for this system.

1. Admin: The person in charge of several responsibilities such as managers, editors, and clients.

2. Manager: A person who has authority over the news and the people who watch it.

3. Editors: Individuals who develop or edit news before it is broadcast.

4. Consumers: Individuals who consume content, whether registered or not.

**2.3 Assumptions**



Assumptions: We have made the following assumptions

1. News are coming from trusted and reliable source.

2. The user enters correct details when registering.

**3. Specific Requirements**

**3.1 Functional Requirements**



The feature of the News Website will be:

* Authentication - Registration and login.
* No user can delete news after it’s published, though it can be privatized.
* Trending news based on views.
* Notification of followed authors.

**Admin Functionalities**:

* Admin user should only manage roles of users such as:

Roles: Manager, Editor and Consumer

* Admin user can block consumer user.

**Manager Functionalities**:

* Manager user can approve news created by editor user.
* Manager user is only who should edit news which is already live.
* Manager user can also block consumer user.
* Manage user can privatize news.

**Editor Functionalities**:

* Only Editor user can create news.
* Editor user can edit news only before it’s been published.

**Consumer Functionalities**:

* Consumer user can view news.
* Consumer user can register to use some functionality like follow.
* Consumer user can search for news based on:

Date created, Content, Tags and Categories

* Consumer user who is registered can directly follow on any news.
* Consumer user can edit their own profile.

**3.2 Constraints**



**3.2.1 Technology Constraints**

NWA is based on Django framework and DRF of python.

Postgresql will be used as Database.

**3.2.2 Interface Constraints**

Because this is a web application, it should function with any browser on any operating system.

**3.2.3 Safety and Security** **Constraints**

This application can be used by both authenticated and anonymous users. Unauthenticated users should be able to see and search news, while authenticated users should be able to directly follow on news.