INDIAN WILDLIFE WEBSITE

Specific Requirement Specification

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Preface

This document represents the Software Requirements Specification for the Indian Wildlife Website. The document begins with an Introduction section that describes the purpose of the document and what is considered to be in the scope of this document as well as what is outside the scope of this document.

The next section is an Overall Description of the Website, the introduction to website, objective of the website and background information of website. This section explains the data flow in the website.

Lastly, this section contains user characteristics and the use case diagram to support the understanding.

The Specific Requirements section comes next and is the most important section of this document. This section describes the functionalities of the system, and goes into detail about each specific requirement of the Indian Wildlife Website. A description, with functional requirements and data flow diagram is provided for each specific requirement.

The Specific Requirements section also describes the System attributes, Software System analysis and Performance Requirements that are to met by the Indian wildlife website.

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1 Introduction

1. a) *Purpose*

The purpose of the Software Requirements Specification is to describe the specific requirements of the Indian Wildlife Website project. Included with the description of the requirements is a description of any constraints or assumptions that the project is working within.

Along with the requirements descriptions, it is also the purpose of this document to describe the system attributes of the Indian Wildlife Website. These system attributes include accessibility, security, usability, price and scalability.

Also, the system defines the software system analysis for the website.

Lastly, the purpose of this document is to communicate the project planning (Gantt chart, pert chart, timeline and the work breakdown structure).

1. a) *Scope*

It is within the scope of the Software Requirements Specification to describe the specific system requirements of the Indian Wildlife Website. This would include performance requirements, system attributes and software system analysis. It is also within the scope of the document to describe the specific requirements and project planning.

It is outside the scope of this document to describe the working of the system.

1. Overall Description

1. a) *Project Perspective*

The Indian Wildlife Website is aimed towards creating awareness among the general mass and help conserve the wildlife of India. The project will help governmental and non-governmental organizations to reach out to people and promote their events, meetings and campaigns to conserve the Indian wildlife. Private individuals will have the ability to share stories and read articles posted by wildlife enthusiasts, ecologists etc. The website will also provide information about Indian wildlife, by the way of articles, news, pictures etc. the website will also help people interested in a career in this field by providing information about courses and colleges.

1. a) *Project Introduction*

The Indian Wildlife Website will be an introduction to India's rich flora and fauna and the dangers that it faces. The website will aim to create awareness among the general mass by means of informatory posts, news, articles etc. The website will help government and non-government organizations to organize meetings, camps and attract as much attention as possible through publicity on the website and allow people to come forward and participate n such events. The website will help create new sense of awareness among the youth and promote and encourage them to pursue careers in this field by providing extracts and articles from notable people in this field and providing information regarding career choices and options in this field.

1. a) *Data Flow Diagram*
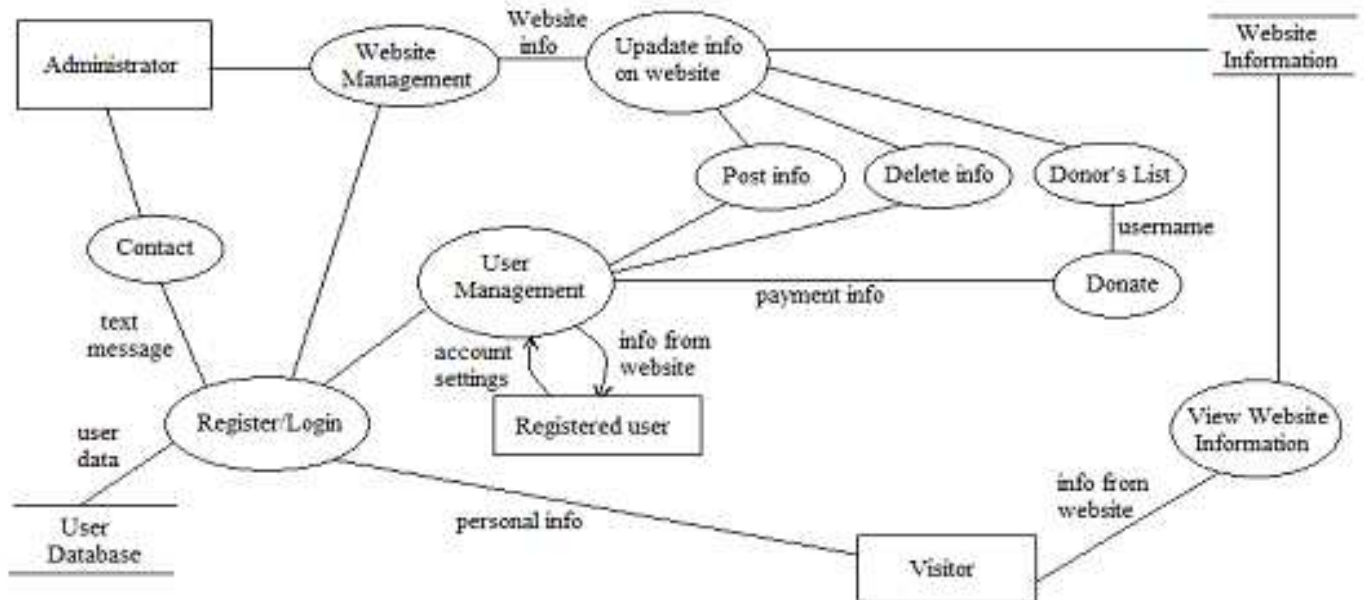
1. a) *Data Dictionary*

Name	Description
Administrator	The website is monitored and controlled by an administrator (or developer).
Registered User	The website caters to different users, registered users are those who have accepted the terms and details of the website and provided basic personal information to the website in order to register themselves.
Visitors (Anonymous Users)	Those users who only visit the website to seek information or resources and do not register themselves and have limited access to the website are called Visitors (Anonymous Users).
Website Management	The website is managed by the Administrator, the administrator has the right to remove or post information on the website as he sees fit.
Update information	Information is updated on the website as users post information, photos or videos or delete them.
User Management	Registered users and Visitors are together managed by the User management.
Register/Login	Visitors who want to register themselves on the website can do so by providing basic personal information and declaring a username and password for later login's. Also the registered users can login to their own profiles by using the username and password.

Name	Description
View Website Information	Information on the Website can be accessed by anyone.
Post information	Users (Registered Users) can post information like news, articles, stories or create groups, discussions and also organize meetings and camps using the Blog webpage on the Website.
Delete Information	Users can delete information posted by them anytime they see fit.
Donate	Registered users can donate to non-profit organizations by choosing one of them from the pre-defined list on the website and entering the necessary valid payment details.
Donor's List	All users who have donated to organizations through the website will have their names updated on the Donor's List on The Website.
Website Database	The website database contains all the posts and information of the website.
Users Database	The Users database contains information of each registered user that is their personal details submitted at the time of registration.

1. a) *Use Case Diagram*
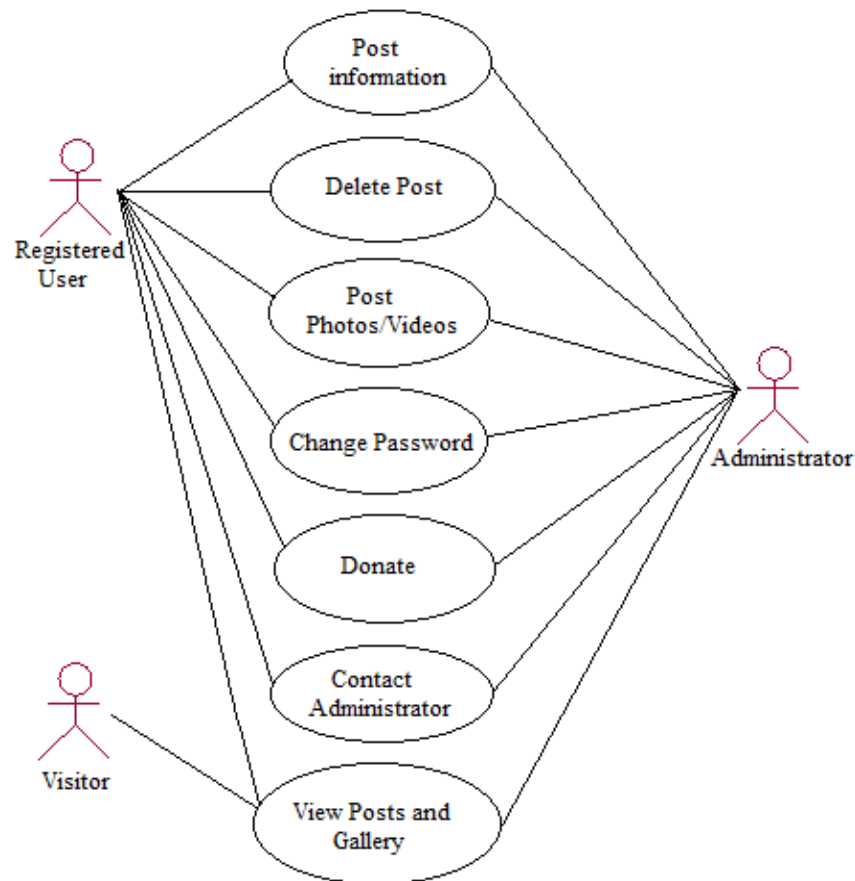
1. a) *User Characteristics*

User	Description
Anonymous User	Anonymous Users visiting the website will be able to view the news section, the blog section and also the gallery but will not be able to answer or post or comment on any of the above.
Registered Members: Private Individuals	All registered members are allowed to post questions, answer them, and create groups, forums and discussions. They can post photos and videos and comment on them.
Registered Members: Government or Non- Government Organizations	All the organizations can post information about their upcoming events, camps etc. All organizations will allow private individuals to participate in them. New career opportunities can also be mentioned.
Administrators	The website administrators will improve the working of the website, using reviews and suggestions. They will also answer to complaints.

1. Requirement Specification

1. a) *Website Functions*

The following table describes the functionalities of the Indian Wildlife website.

S.no	Shall Requirement
01	The system SHALL enable its users to view news related to wildlife stories.
02	The system SHALL enable its users to register themselves on the website.
03	The system SHALL enable its registered users to post questions or answer them.
04	The system SHALL enable its registered users to post new news or updates and follow them.
05	The system SHALL allow its registered users to form groups and discussions on the website.
06	The system SHALL enable its registered users to organize meetings or camps using the blog webpage.
07	The system SHALL enable its user to browse through gallery of photos and videos posted by users.

S.no	Shall Requirement
08	The system SHALL allow its registered users to comment on photos and videos in the gallery.
09	The system SHALL inform its users about the career choices in this field.
10	The system SHALL allow government and non-government organization registered members to post regarding new career opportunities.
11	The system SHALL enable its registered users to donate to various non-profit organizations using a third party source.
12	The system SHALL ensure that all the personal details of users and payment information are not shared with any third party source.
13	The system SHALL allow its users to change their password in case they forget it or otherwise.
14	The system SHALL allow its users to contact the administrator of the website through complaints and suggestions.
15	The system SHALL enable its users to review the website.

1. *a)* *Modules*

1. *a)* 1) Homepage

1. Basic Introduction to Website

2. Links to all other WebPages.

3. Contains news and statistics on Indian Wildlife.

1. *a)* 1) Post Information

1. All the registered users can post questions, answers etc

2. They can create groups, organize meetings and discussions.

3. Wildlife Camps can be organized by organizations.

1. *a)* 1) Delete Post

1. The registered users can delete posts that they have posted through their profiles after they have logged in.

1. *a)* 1) Post Photos

1. Registered users can post photos and categorize them using a pre-defined list.

2. All the photos that have been posted are available to all users to view through the Gallery.

1. **a) 1) Registration Page**

1. Anonymous users can only browse though the website. To post news, articles, photos etc or to donate users need to register themselves.

2. Users can register themselves on the registration page by providing basic necessary details.

3. Users will need to create a username and password combination at the time of registration that will be required to log in to the website.

1. **a) 1) Log in**

1. Registered users can to log in to the website for better access to the website.

2. Users can log in to the website using the username and password combination created at the time of registration.

1. **a) 1) Donate**

1. Registered users can donate to non-profit organizations by choosing from a list of such organization and making payment through the way of a third party source.

1. **a) 1) Contact us**

1. Users can contact the administrators using the review panel for suggestion, complaints and reviews.

1. **a) *Specific Requirements***

1. **a) 1) Registration**

Introduction: The system will allow an anonymous user to register himself through the registration page by providing basic personal details.
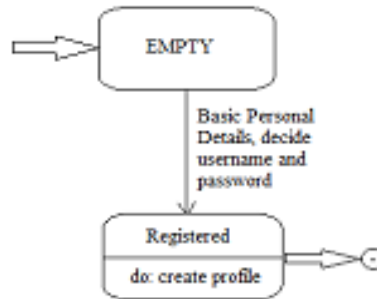
Functional Requirements:

Purpose: Registration of a user.

Input: Basic personal details and a combination of username and password of the user are required to register the user.

Output: A new user is added to the database with all the necessary associated details.

Data Flow Diagram:

Stimulus Response:

S.no	User Actions	System Actions
01	The user clicks the link to the registration page.	The system opens the registration page, and a form is displayed with all the necessary columns to register the user.
02	The user fills out the form.	The system ensures that correct type of data is filled out in the correct column.
03	The user clicks the submit button.	The system stores the information of the user in the user database.

Use case description:

Use case name:	Registration
Functionality:	The Module will update the database to hold the following details of a private or government user Name Phone number Address DOB E-mail Username Password Security Question
Pre-condition:	The User should not already be registered in the website's database.
Post-condition:	The User details are successfully registered in the website's database.
Extension:	The system retrieves the data from the database and allows login after authentication of the user name and password given in the database.

1. *a)* 1) **Login**

Introduction: The website will allow its registered users to login to their profiles through the way of a username and password described when the users registered themselves.
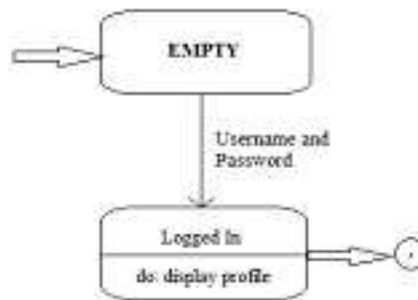
Functional Requirements:

Purpose: Login to respective individual profiles through login page.

Input: Username and password.

Output: The username and password entered will associate to a particular profile, this profile will be opened.

Data Flow diagram

Stimulus Response:

S.no	User Actions	System Actions
01	The user clicks the link to the login page.	The system opens the login page, and requests the user to enter its own username and password
02	The user enters the username and password and clicks submit.	The system checks the user database to authenticate the user. It logins to the account of the user if the username and password combination is correct, otherwise it displays an error message.

Use case description:

Use case name:	Login
Functionality:	The Module will check the database for the following attributes of the particular user. Username Password

Use case name:	Login
Pre-condition:	The User should already be registered to the website.
Post-condition:	The User account is successfully opened in a new page and the account details are shown.
Extension:	The system retrieves all the data associated with that particular user from the database and displays it.

1. *a)* 1) **Change Password**

Introduction: The system will allow users to change their passwords using old passwords as security information or in case of lost passwords the security questions declared at the time of registration will be used.

Functional Requirements:
Purpose: **Changing password**

Input: **Old password or security questions will be authenticated, if they match to the details in the database, an option to create a new password will be generated.**

Output: **A new password is associated with the user profile. To login to the profile the user should use this new password.**

Data Flow Diagram:
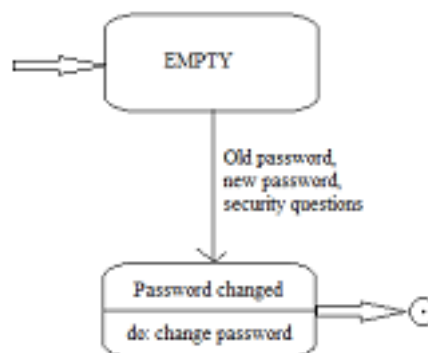
Stimulus Response:

S.no	User Actions	System Actions
01	The user clicks the link to change the password.	The system opens a prompt window and requests the user for username.
02	The user enters the username.	The system searches the user database for the username and displays the security question associated with it.

S.no	User Actions	System Actions
03	The user enters the answer to the security question (defined at the time of registration).	The system authenticates the user using the security question and opens a new window for user to enter the new password.
04	The user enters the new password.	The system updates the password of the user in the user database.

Use case description:

Use case name:	Change Password
Functionality:	The Module will update the database for the given attribute: Password
Pre-condition:	The User should be registered in the website's database.
Post-condition:	The User's password is successfully updated I the database.
Extension:	The system allows login of the user using the new password only.

1. *a)* 1) **Post information**

Introduction: The website will allow its registered users to post information (news, articles and stories), create groups, forums, discussion and help organize meetings and camps.

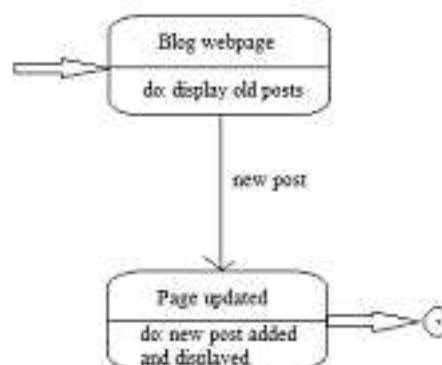**Functional Requirements:**
Purpose: Post on the website.

Input: Appropriate article or information.

Output: A new subject of information will be posted along with author's tag (username) and added to the database.

Data Flow Diagram:

Stimulus Response:

S.no	User Actions	System Actions
01	The user clicks the link to the blog page.	The system opens the blog page and allows the user to view an option to create a new post.
02	The user creates a new post and fills out the information (news, article etc.) and tags the post using the pre-defined set of tags and submits it.	The system adds the post with its tags and adds the name of the user to the post and displays it on the blog page. The website database is updated.

Use case description:

Use case name:	Post information
Functionality:	The Module will add the new post to database with the following attribute information. Message Tags Name
Pre-condition:	The User should already be registered and logged in to the website.
Post-condition:	The blog webpage is updated and the user account is also updated with the new post information in it.
Extension:	The system displays the newer posts first on the blog page.

1. *a*) 1) Delete Post

Introduction: The website will allow its users to delete a post and its contents that has been posted by him.
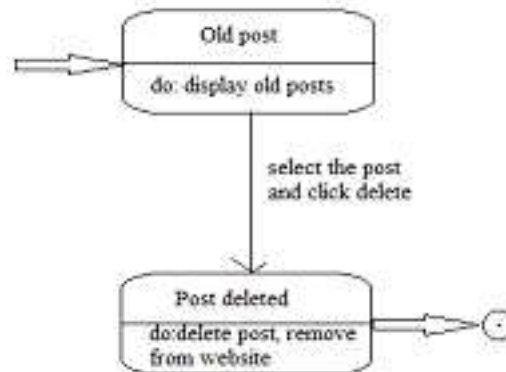
Functional Requirements:
Purpose: Delete a post on the website.

Input: A delete option for each post is provided for the user who has posted that particular article or news.

Output: The particular post in question and all its contents will be deleted from the website and the database.

Data Flow Diagram:

Stimulus Response:

S.no	User Actions	System Actions
01	The user selects the post from all the posts (that have been posted by the user) displayed in his account.	The system asks for confirmation of deletion of the post.
02	The user clicks 'Yes'.	The system deletes the post from the website database.

Use case description:

Use case name:	Delete Post
Functionality:	The Module will delete from the database the following attributes of that particular Message Tags Name
Pre-condition:	The User should already be logged in to the website.
Post-condition:	The post will be removed from the website database and also the user's account will be updated.
Extension:	The system will have no references to the post.

1. *a*) 1) **Post photos and Videos**

Introduction: The website will allow its users to post photos and videos and categorize them using a pre-defined list.
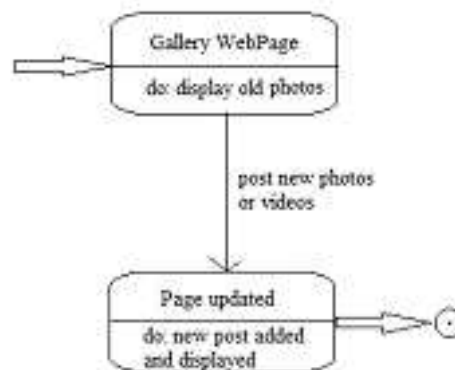
Functional Requirements:
Purpose: A photo or a video is to be posted on the website for access to all users through the gallery section.

Input: A new photo or video.

Output: A new photo or video will be posted along with author's tag (username) and added to the database.

Data Flow Diagram:

Stimulus Response:

S.no	User Actions	System Actions
01	The user clicks the link to the gallery page.	The system opens the gallery page and allows the user to view an option to post a new picture or a video.
02	The user clicks on the option to add a picture/video and tags the post using the pre-defined set of tags and submits it. The user can also add a comment in the form of text message to the post.	The system adds the picture/video with its tags and adds the name of the user to it and displays it in the gallery page. The website database is updated.

Use case description:

Use case name:	Post photos and videos
Functionality:	The Module will add the new picture/video to database with the following attribute information. photo/video tags comment
Use case name:	Post photos and videos
Pre-condition:	The User should already be registered and logged in to the website.
Post-condition:	The gallery webpage is updated and the user account is also updated with the new post in it.
Extension:	The system displays the newer posts first in the gallery page.

1. *a)* 1) **Donate**

Introduction: The website will allow its registered users to donate to non-profit organization by choosing from a pre-defined list and securing payment through a third party source.
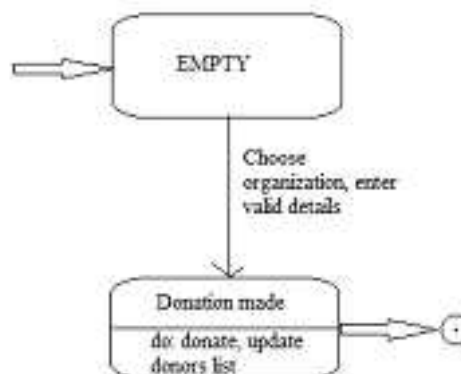
Functional Requirements:
Purpose: A donation is to be made to a non-profit organization in ties with the website.

Input: Choice of organization and all the necessary information to make the payment.

Output: A donation will be made to the organization and the user's name will be added to donors list displayed on the website.

Data Flow Diagram:

Stimulus Response:

S.no	User Actions	System Actions
01	The user clicks the link to the donation page.	The system opens the donation page and displays a form for the user to fill with the necessary information (including payment information).
02	The user fills the form.	The system ensures that the correct information is filled in the correct column.
03	The user submits the form details.	The system uses a third party source to ensure the safe transaction. Once the transaction is complete, the users name is added to the donor's list.

Use case description:

Use case name:	Donate
Functionality:	The Module will add following attribute information. Donorlist
Pre-condition:	The User should already be registered and logged in to the website.
Post-condition:	The donation webpage is updated and the user's name is added to the donor's list.
Extension:	The system displays the newer donor's first in the donor's list.

1. *a*) 1) **Contact**

Introduction: The Indian Wildlife website shall allow its users to contact the administrator of the page using complaints and suggestions. The user can also post reviews on the page.
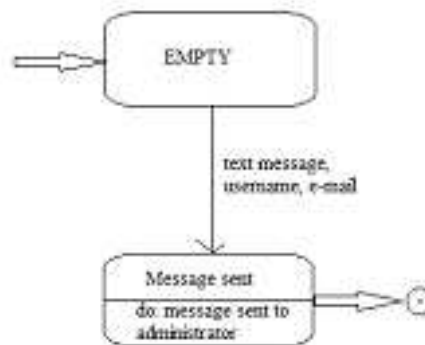**Functional Requirements:**

Purpose: The user can contact the administrator.
Input: A text message (complaint, suggestion), user's username and e-mail address.
Output: A message is sent to the administrator.

Data Flow Diagram:

Stimulus Response:

S.no	User Actions	System Actions
01	The user clicks the link to the contact page.	The system opens the contact page and displays a format that has to two sections, one for the complaint or suggestion to the administrator and the other for the reviews.
02	The user enters the necessary details.	The system sends a message to the administrator or posts the review under the review section.

Use case description:

Use case name:	Contact
Functionality:	The Module will add the following attribute information. username e-mail password txtmsg review
Pre-condition:	The User should already be registered to the website for contacting the admin whereas a review can be posted by an anonymous user also.
Post-condition:	The review section is updated or the administrator receives the message.
Extension:	The system displays the newer reviews first in the review section.

1. **a)** *Software System Attributes*

1. **a)** 1) **Accessibility**

The website will be accessible to everybody, with no restrictions. The website can be accessed using any of the following browsers: Google Chrome, Mozilla Firefox and Internet Explorer (Version 8 and above).

1. **a)** 1) **Security**

The website will provide secure registrations to the users. No User Details will be shared with a third party. The donations to non-profit organizations will be made through safe and secure gateways.

1. **a)** 1) **Usability**

The website will be attractive and user friendly. Graphical representation of Wildlife Surveys on species, climates, lands and ecologies will be provided for better understanding.

1. **a)** 1) Price

The website will have no registration fees of any kind. All the features of the website will be available to the user for free.

1. **a)** 1) **Scalability**

The website will be designed keeping in mind the needs of the user, better component design to get better performance at peak time. The website will have flexible service based architecture that will be highly desirable for future extension.

1. a) *Software Requirement Analysis*

1. a) 1) Software Requirements

1. Adobe Dreamweaver CS6

2. XAMPP Server

3. MYSQL Server 5.6

4. Google Chrome, Internet Explorer

1. a) 1) Hardware Requirements

1. 32-bit processor(minimum)

2. RAM: 2Gb(minimum)

3. Minimum space required on disk: 4Mb

1. a) *Performance Requirements*

The following tables list the performance requirements of the India Wildlife Website.

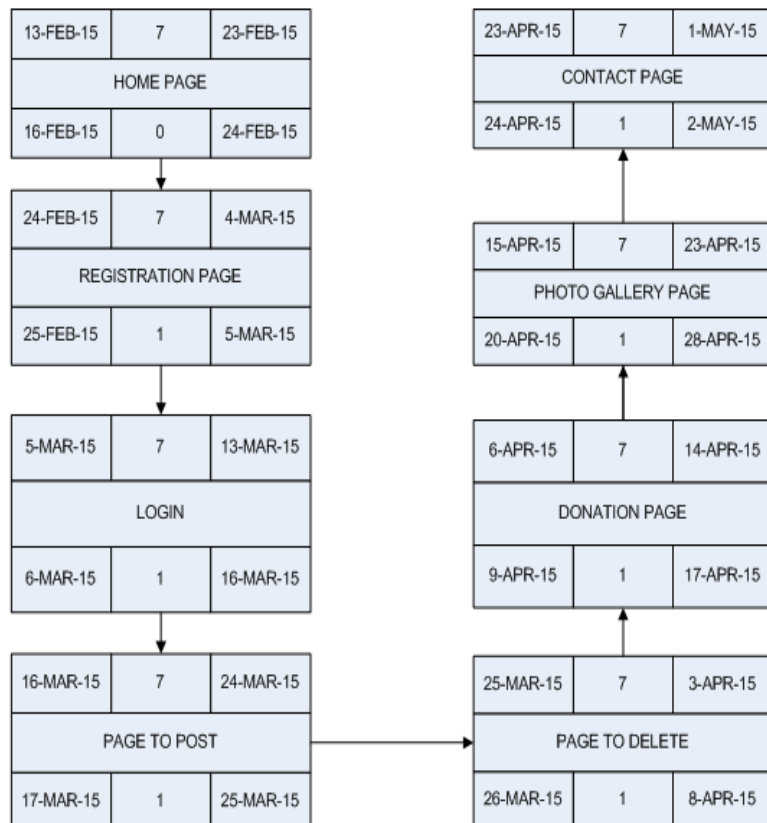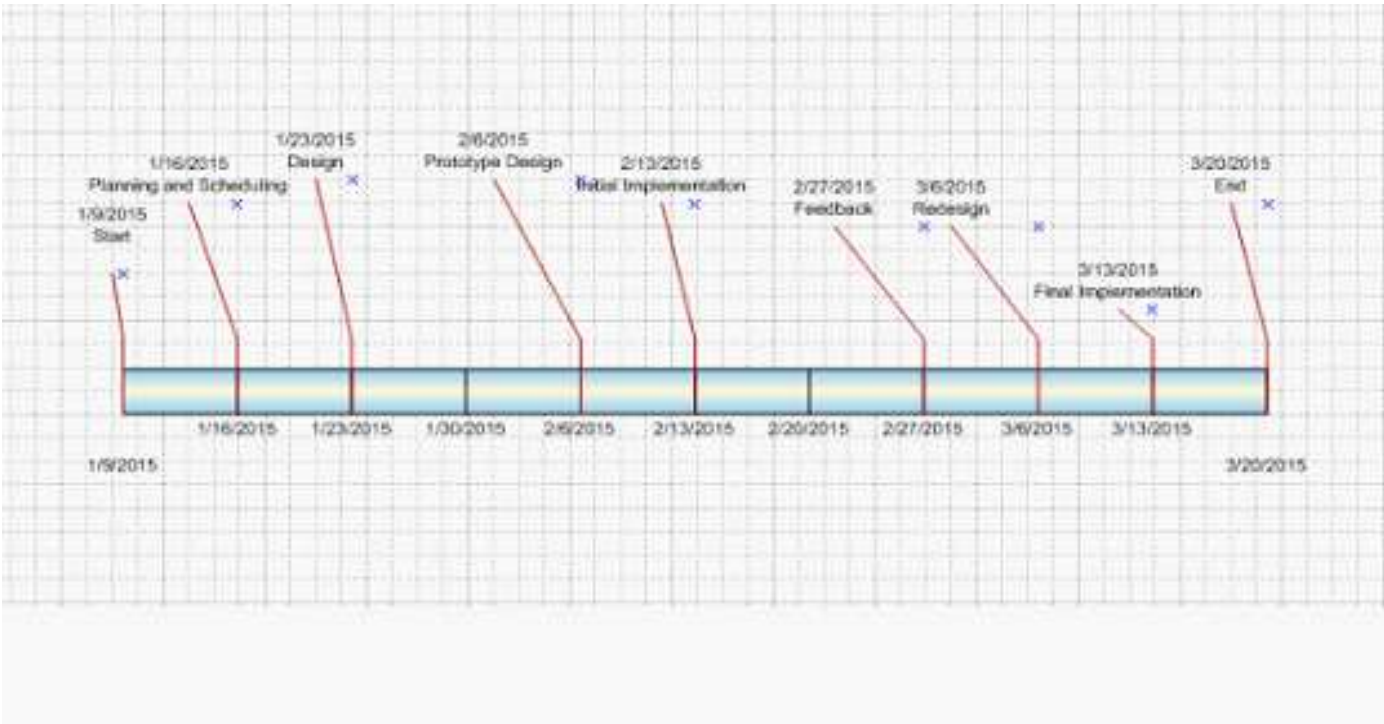| Performance Requirement	Description
Storage Capacity	The storage capacity of the website's database will depend upon the hardware limits.
Software Runtime Errors	The Indian Wildlife Website will handle the runtime errors consistently and as gracefully as possible.

APPENDIX-A

Project Planning

1. Gantt Chart

ID	Task Name	Start	Finish	Duration	Feb 2015			Mar 2015				Apr 2015					
					8-2	15-2	22-2	1-3	8-3	15-3	22-3	29-3	5-4	12-4	19-4	26-4	3-5
1	Requirements Gathering	09-02-2015	10-02-2015	2d	▪												
2	Planning and Sheduling	10-02-2015	12-02-2015	3d	▪												
3	Home Page	13-02-2015	23-02-2015	7d		▬											
4	Registration Page	24-02-2015	04-03-2015	7d			▬										
5	Login Page	05-03-2015	13-03-2015	7d				▬									
6	Page to Post	16-03-2015	24-03-2015	7d					▬								
7	Page to delete	25-03-2015	03-04-2015	8d						▬							
8	Donation Page	06-04-2015	14-04-2015	7d							▬						
9	Photo Gallery Page	15-04-2015	23-04-2015	7d								▬					
10	Contact Page	23-04-2015	01-05-2015	7d									▬				

1. Pert Chart

13-FEB-15	7	23-FEB-15
	HOME PAGE	
16-FEB-15	0	24-FEB-15

↓

24-FEB-15	7	4-MAR-15
	REGISTRATION PAGE	
25-FEB-15	1	5-MAR-15

↓

5-MAR-15	7	13-MAR-15
	LOGIN	
6-MAR-15	1	16-MAR-15

↓

16-MAR-15	7	24-MAR-15
	PAGE TO POST	
17-MAR-15	1	25-MAR-15

→

25-MAR-15	7	3-APR-15
	PAGE TO DELETE	
26-MAR-15	1	8-APR-15

↑

6-APR-15	7	14-APR-15
	DONATION PAGE	
9-APR-15	1	17-APR-15

↑

15-APR-15	7	23-APR-15
	PHOTO GALLERY PAGE	
20-APR-15	1	28-APR-15

↑

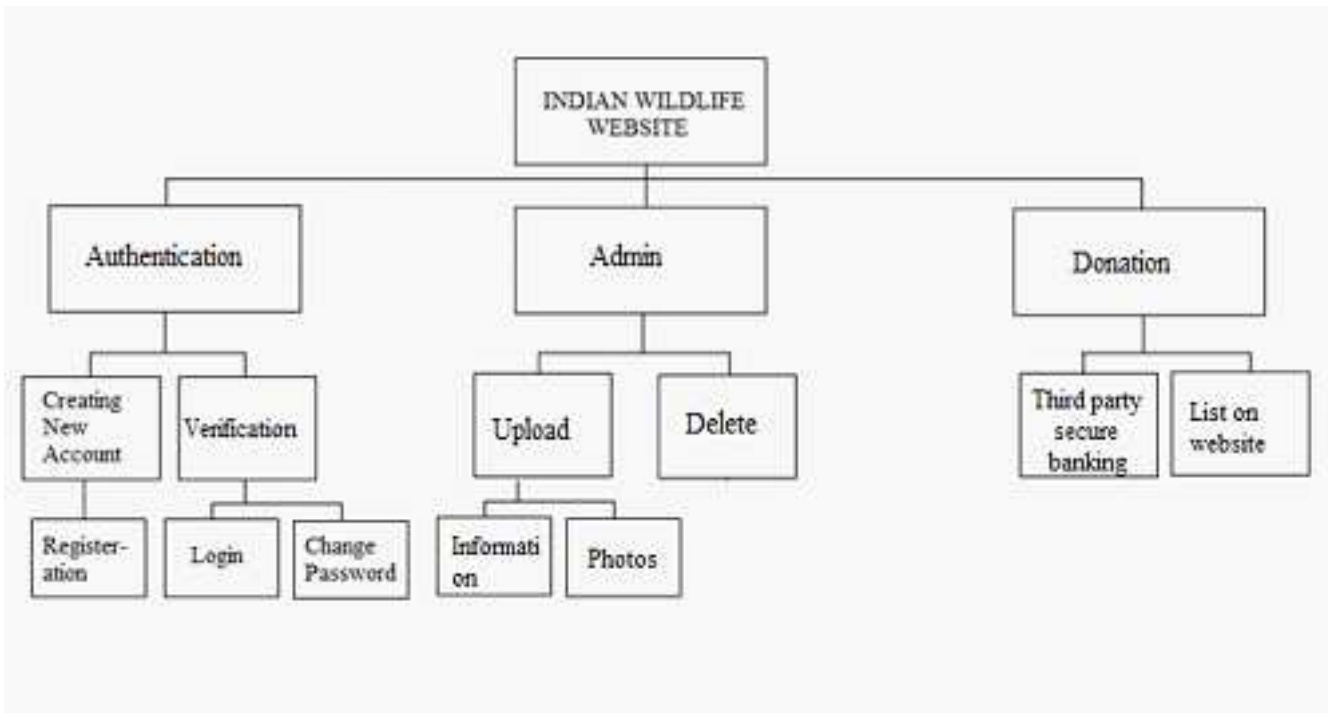| 23-APR-15	7	1-MAY-15
	CONTACT PAGE	
24-APR-15	1	2-MAY-15

1. Timeline

1. Work Breakdown Structure

1. Class Diagram