SHRI VAISHNAV INSTITUTE OF TECHNOLOGY AND SCIENCE, INDORE

Save Her From Cancer

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Technopreneurs

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Contents

1. INTRODUCTION:

1.1 Purpose:

Save her from cancer is for spreading awareness about the various and most harmful cancers which can affect women like breast cancer, cervical cancer, endometrial cancer, fallopian tube cancer, vaginal cancer, vulvar cancer, ovarian cancer, etc. The project integrates various online communication methods to help affected women to remain in touch with medical practitioners and various women welfare organizations.

1.2 Scope:

- Create different system users and assign different roles with related permissions.
- Manage all the account details such as user name, phone numbers, address, websites, and email addresses of all the users from one central location.
- Maintain the services provided to the customer.
- Clarification of doubts of users about the disease with medical practitioners.
- Let the disease affected or cured women share their experiences through the site.
- Manage write-ups which give a general awareness to the public about the hazardous cancers which can affect women.
- Medical practitioners can share their case studies and upload their videos.
- Send a regular newsletter to registered users about the latest developments in regard to the disease.
- Providing information regarding the nearest hospital which provides diagnosis facility as well as treatment for the disease according to the address given by the users.
- View strategic data and graphs about contributors to the site, regular users, age groups of users etc.
- Facilitate appropriate communication between all stakeholders - Discussion forum/chat/mail/polls.
- Manage Multiple Choice Questions (MCQs) to help identify whether they have started to show the initial symptoms.
- The most active doctor or medical practitioner in each disease category is given "e-certificate of appreciation" on yearly basis.

- Confirmation of end user identity and will verify which users are authorized to receive what kind of support.
- Activities like updations, creations done in the system by the system users will be maintained in the form of logs for auditing and maintaining the integrity of the system.

1.3 Abbreviations:

- **Personal details:** Details of user such as username, phone number, address, website, e-mail address etc.
- **WWO:** Women Welfare Organization.
- **MCQ:** Multiple Choice Question.
- **HTML:** Hypertext Markup Language is a markup language used to design static webpages.
- **EJB:** Enterprise Java Beans.
- **J2EE:** Java 2 Enterprise Edition is a programming platform- part of the Java Platform- for developing and running distributed multitier architecture Java applications, based largely on modular software components running on an application server.
- **DB2**: DB2 Database is the database management system that delivers a flexible and cost effective database platform to build robust on demand business applications.
- **WAS:** Web sphere application server is an application server that runs business applications and supports the J2EE and web services standards.
- **WSAD:** Web sphere studio application developer is a toolkit which is designed for the creation of more complex projects, providing fully dynamic web application utilizing EJBs. This consist of EJB tools , CMP ,data mapping tools & a universal test client that is designed to aid testing of EJB's.
- **HTTP**: Hypertext Transfer Protocol is a transaction oriented client/server protocol between web browser & a Web Server.
- **HTTPS:** Secure Hypertext Transfer Protocol is a HTTP over SSL (secure socket layer)

1.4 References:

- IEEE SRS Format
- Sample SRS (Provided by IBM)
- Problem Definition (Provided by IBM)
- Mastering UML with Rational Rose by Wendy Boggs Michael Boggs (Sybex Inc.)
- UML Distilled by Martin Fowler and Kendall Scott (Addison Wesley)

1.5 Technologies:

- RAD: Application Architecture
- DB2: Database
- WSAD: Development Tool
- WAS: Web Server
- Rational Rose: Design Tool

1.6 Overview:

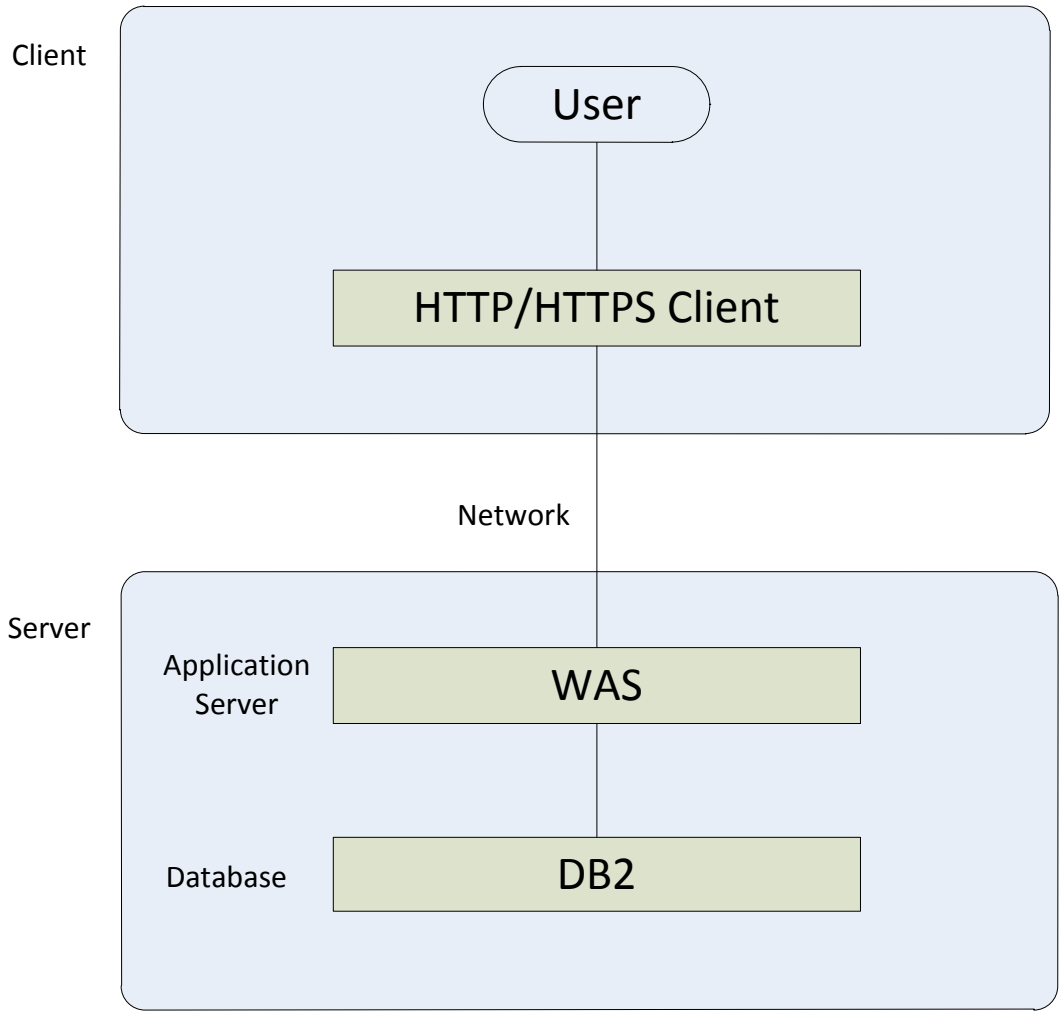
SRS will contain two sections:

- ***Overall Description*** will describe major components of the system, interconnection and external interfaces.
- ***Specific Requirements*** will describe the functions of actors, their role in the system and constraints.

2. Overall Description:

Describe the general factors that affect the product and its requirements:

2.1 Product Perspective:



- The web pages (XHTML/JSP) are present to provide the user interface on customer client side. Communication between customer and server is provided through HTTP/HTTPs protocols.
- On the server side web server is for EJB and database server is for storing the information.

2.2 Software Interface:

- **Client on Internet:** Web Browser, Operating System (any)
- **Client on Intranet:** Client Software, Web Browser, Operating System (any)
- **Web Server:** WAS, Operating System (any)
- **Data Base Server:** DB2, Operating System (any)
- **Development End:** WSAD (J2EE, Java, Java Bean, Servlets, HTML), DB2, OS (Windows), Web Server.

2.3 Hardware Interface:

Minimum Requirements:

	Technology	**Processor**	**RAM**	**Disc Space**
Client Side	Firefox 1.0	Pentium II at 500MHz	64 MB	1 GB
Server Side	Web Sphere Application Server V6.0	Pentium III at 1GHz	512 MB	2 GB
	DB2 V9.0	Pentium III at 1GHz	512 MB	1 GB (excluding data size)

2.4 Communication Interface

- Client on Internet will be using HTTP/HTTPS protocol.

2.5 Product Function

- **Awareness Data:** It Manages write-ups and newsletters which give a general awareness to the public about the hazardous cancers which can affect women.
- **Information Data:** It maintains the information about the diseases, hospitals and diagnostic centers.

- **Maintaining Discussion Data:** It maintains the data related to Discussions (forum/chat/mail/polls) and shared experiences.
- **Track Support:** Maintenance of transactions related to the services provided to the customers in the form of support.
- **Maintaining Logs:** Activities of the System Users can be tracked through the logs, which are maintained by the system.

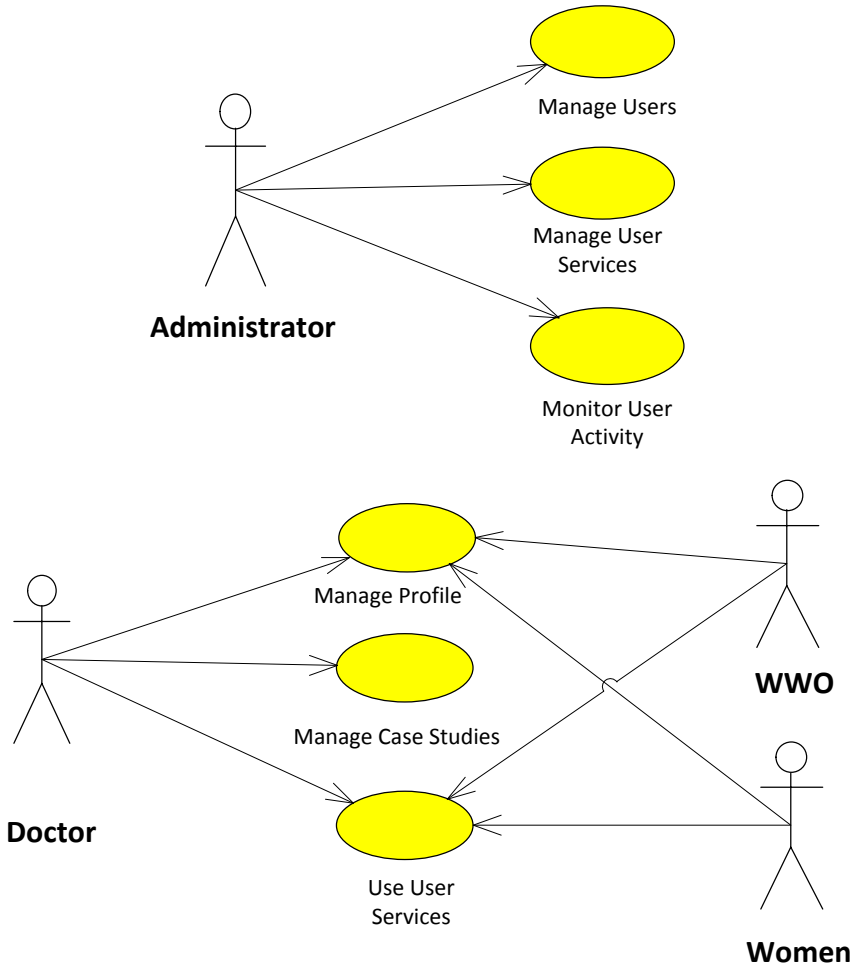
2.6 User Characteristics

Every user should be comfortable of working with computer and net browsing. He must have basic knowledge of English too.

2.7 Constraints

- GUI is only in English.
- Login and password is used for identification of customer and there is no facility for guest.
- This system is working for single server.
- There is no maintainability of back up so availability will get effected.
- Limited to HTTP/HTTPS.

2.8 Use Case Model Survey



1. Administrator: Responsible for managing users, managing user services and monitor activity of users of the system.

- **Manage Users:** The Administrator will create different roles. The system users will be created and will be assigned with the different roles. More than one task and permissions can be granted or revoked from the system users.

- **Manage User Services:** The Administrator will create and handle the various services provided to the users of the system. The administrator will monitor the services and update them according to the needs of the users.

- **Monitor User Activity:** The Administrator will monitor the user activity by viewing strategic data and graphs about contributors to the site, regular users, age groups of users etc.

2. Doctor: Responsible for helping the disease affected women and share their case studies with them.

- **Manage Profile:** The Doctor will manage his profile which is visible to everyone. This will contain his personal as well as professional details. The doctor can change his profile based on various parameters.
- **Manage Case Studies:** The Doctor can upload his case studies including various photos and videos related to the case study. These case studies will help women in understanding the disease in a better way.
- **Use User Services:** The Doctor can use various user services like writing an article, answering the questions asked by women and helping the administrator by sending the valuable feedback about the website.

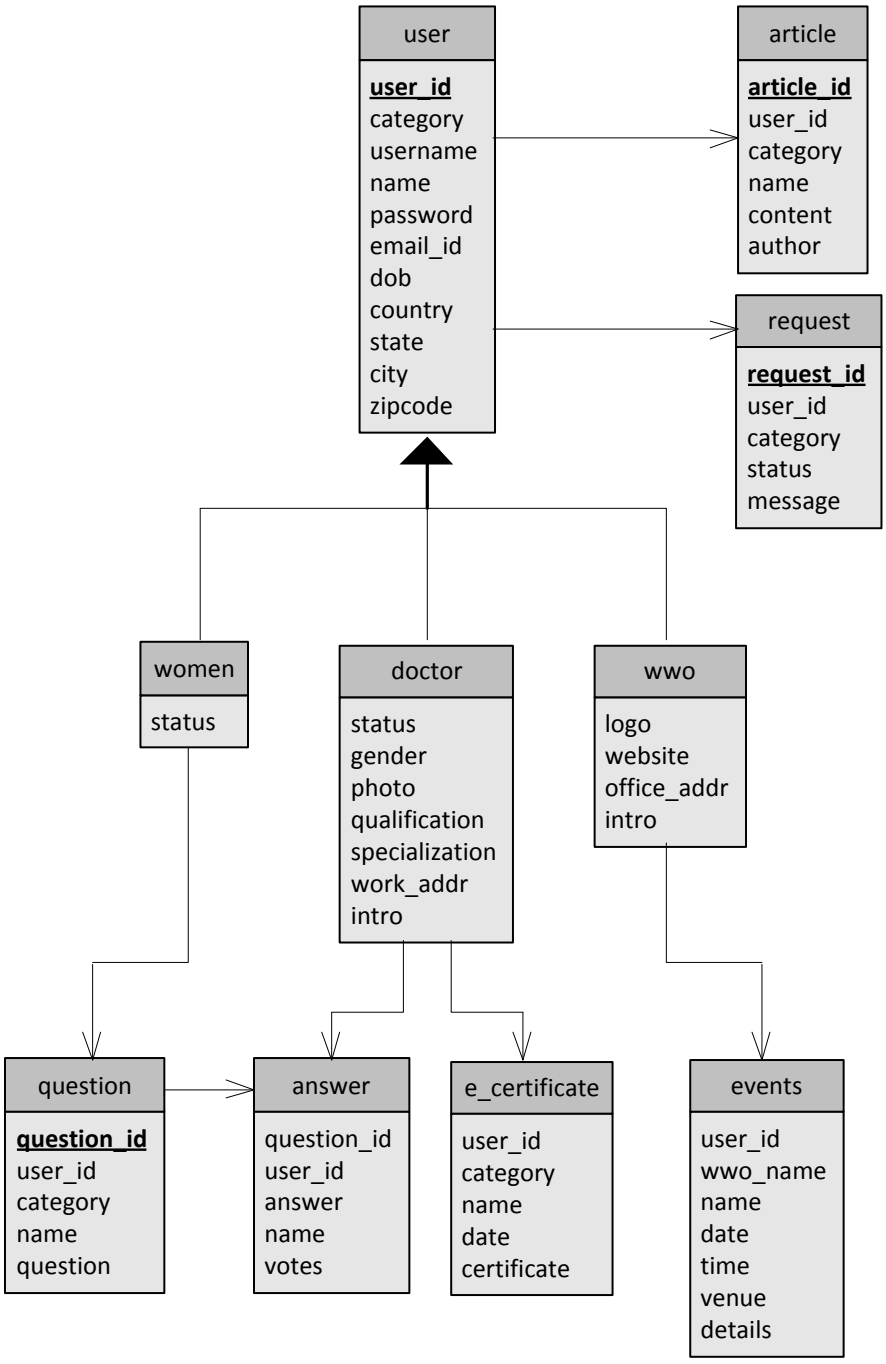
3. Women Welfare Organization: Responsible for spreading awareness through articles and organizing events.

- **Manage Profile:** The WWO will manage its profile which is visible to everyone. This will contain its professional details. The WWO can change its profile based on various parameters.
- **Use User Services:** The WWO can use various user services like writing an article, organizing the events and helping the administrator by sending the valuable feedback about the website.

4. **Women:** Disease Affected or cured women is the main user of the website. Women will use various resources on the website to know more about women specific cancer.

- **Manage Profile:** The disease affected or cured women will manage its profile which is visible to everyone. The disease affected or cured women can change her profile based on various parameters.
- **Use User Services:** The disease affected or cured women can use various user services and help the administrator by sending the valuable feedback about the website.

2.9 Database Design



2.10 Assumptions and Dependencies

- Administrator is created in the system already.
- Roles and tasks are predefined.

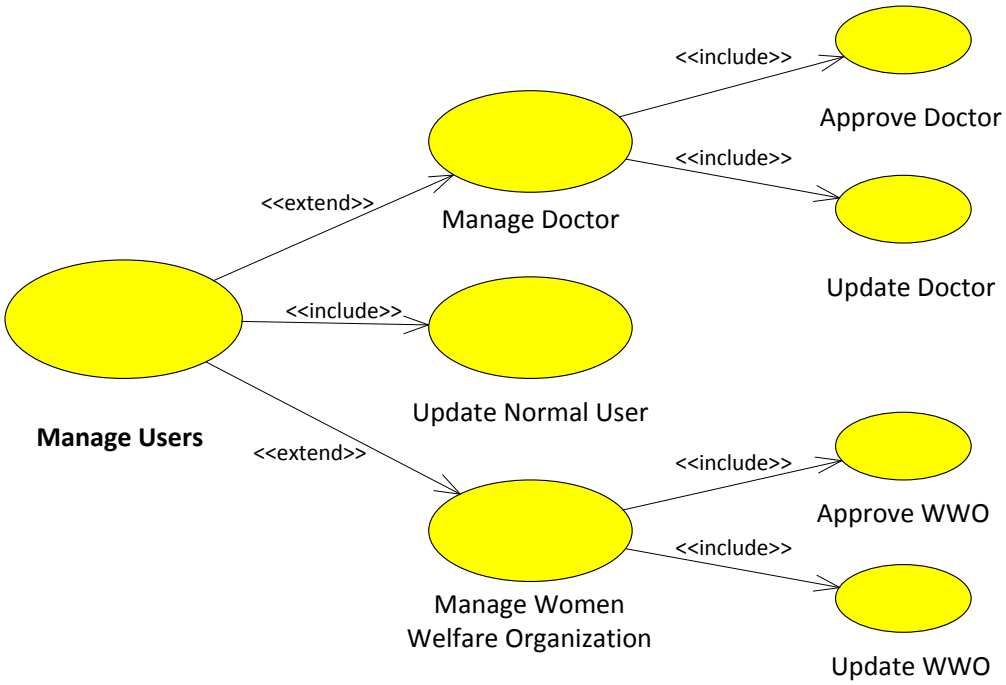
3. Specific Requirements:

3.1 Use Case Reports:

3.1.1 Administrator: Responsible for managing users, managing user services and monitor activity of users of the system.

- **Manage Users:** The Administrator will create different roles. The system users will be created and will be assigned with the different roles. More than one task and permissions can be granted or revoked from the system users.
- **Manage User Services:** The Administrator will create and handle the various services provided to the users of the system. The administrator will monitor the services and update them according to the needs of the users.
- **Monitor User Activity:** The Administrator will monitor the user activity by viewing strategic data and graphs about contributors to the site, regular users, age groups of users etc.

i) Manage Users



- **Name of use case:** Approve Doctor

  Description: Process the request of a new user registered as a doctor on the website.

  Preconditions:

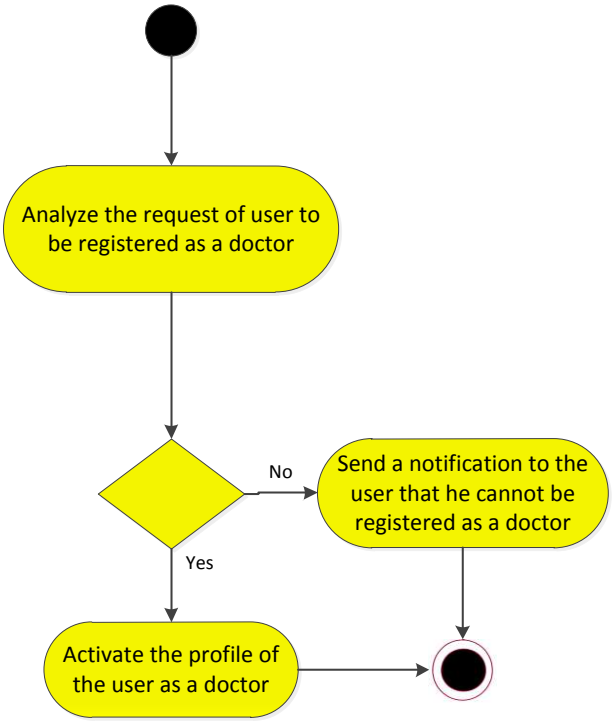
  - Administrator is already logged in.
  - User created an account as a doctor.

  Normal flow of events:

  - The request of the user will be analyzed.
  - Query will be submitted.
  - If administrator approves user as a doctor then his profile will be activated otherwise a notification will be sent to him that he cannot be registered as a doctor.

  Alternate flow of events: None.

  Post Condition: None.



- **Name of use case:** Update Doctor

  Description: Update the profile of a doctor using the administrator privileges.

  Preconditions:

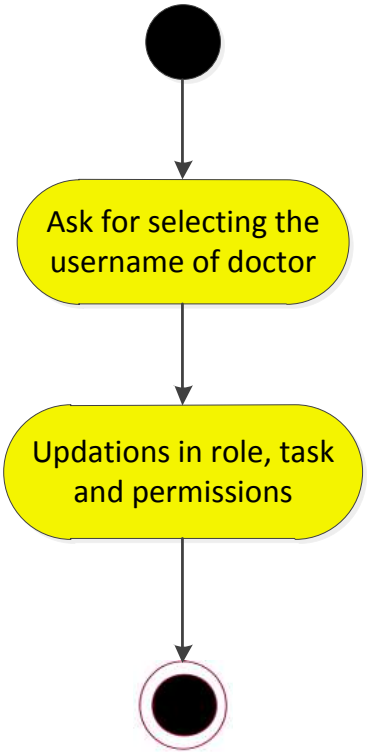
  - Administrator is already logged in.
  - User account activated as doctor.

  Normal flow of events:

  - Select the username.
  - Assign or Revoke the roles, tasks and permissions.

  Alternate flow of events: None.

  Post Condition: None.



- **Name of use case:** Update Normal User (disease affected or cured women)

  Description: Update the profile of a normal user using the administrator privileges.

  Preconditions:

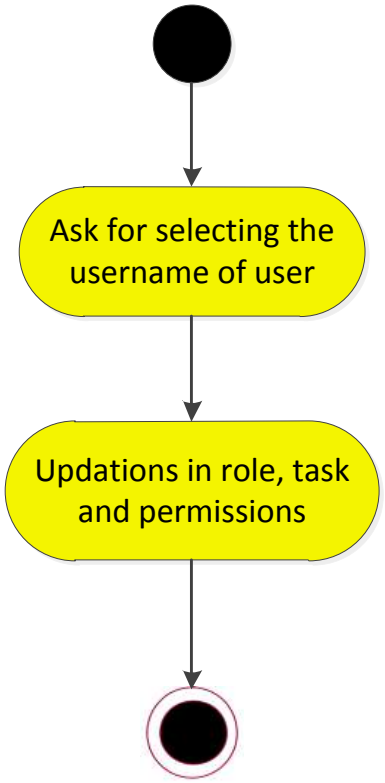
  - Administrator is already logged in.
  - User account activated as that of a disease affected or cured women.

  Normal flow of events:

  - Select the username.
  - Assign or Revoke the roles, tasks and permissions.

  Alternate flow of events: None.

  Post Condition: None.



- **Name of use case:** Approve Women Welfare Organization (WWO)

  Description: Process the request of a new user registered as a WWO on the website.

  Preconditions:

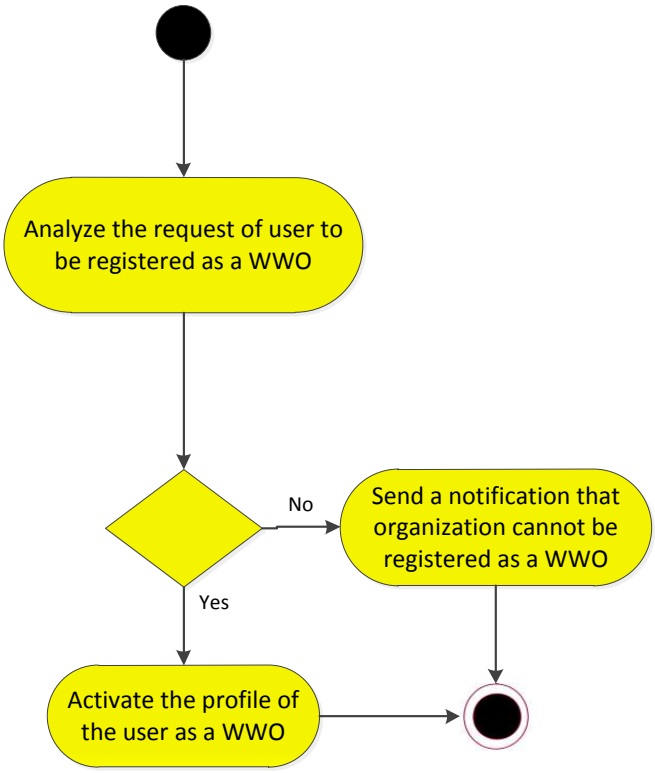
  - Administrator is already logged in.
  - User created an account as a WWO.

  Normal flow of events:

  - The request of the user will be analyzed.
  - Query will be submitted.
  - If administrator approves user as a WWO then his profile will be activated otherwise a notification will be sent that this organization cannot be registered as a WWO.

  Alternate flow of events: None.

  Post Condition: None.



- **Name of use case:** Update Women Welfare Organization (WWO)

  Description: Update the profile of a WWO using the administrator privileges.

  Preconditions:

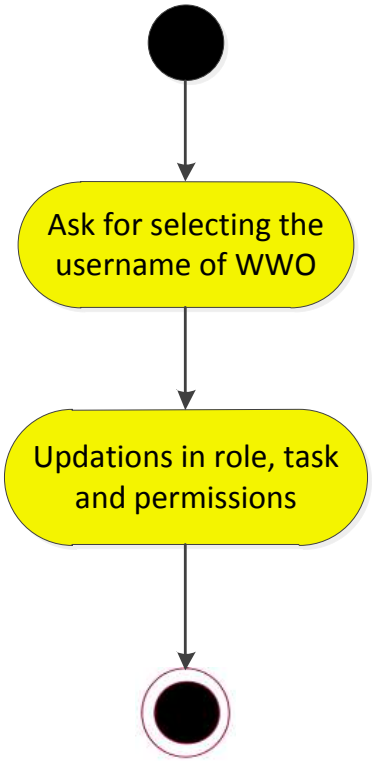
  - Administrator is already logged in.
  - User account activated as that of a WWO.

  Normal flow of events:

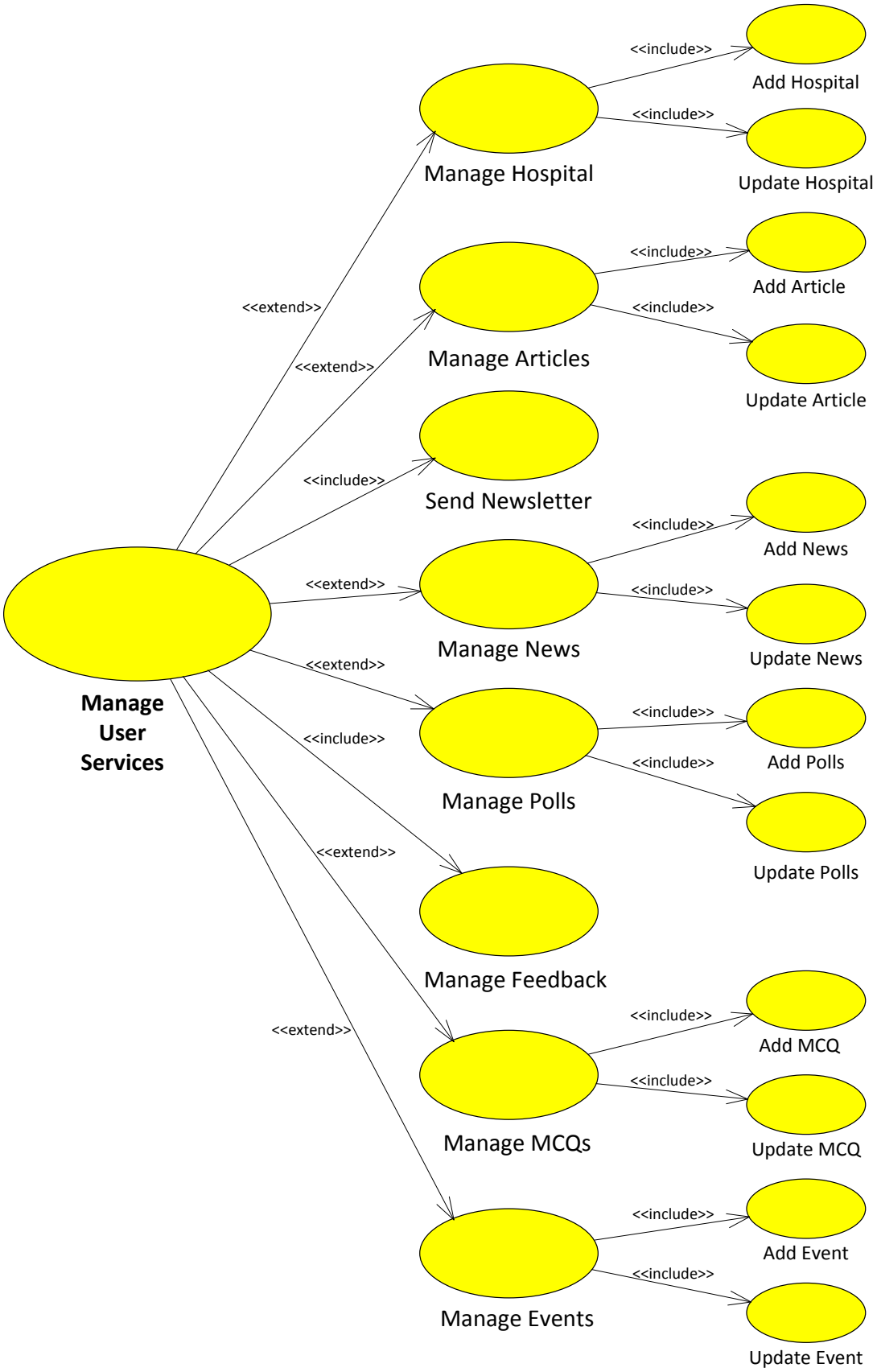
  - Select the username.
  - Assign or Revoke the roles, tasks and permissions.

  Alternate flow of events: None.

  Post Condition: None.



ii) Manage User Services



- **Name of use case:** Add Hospital

  Description: To create the details of the new hospital.

  Preconditions:

  - Administrator is already logged in.

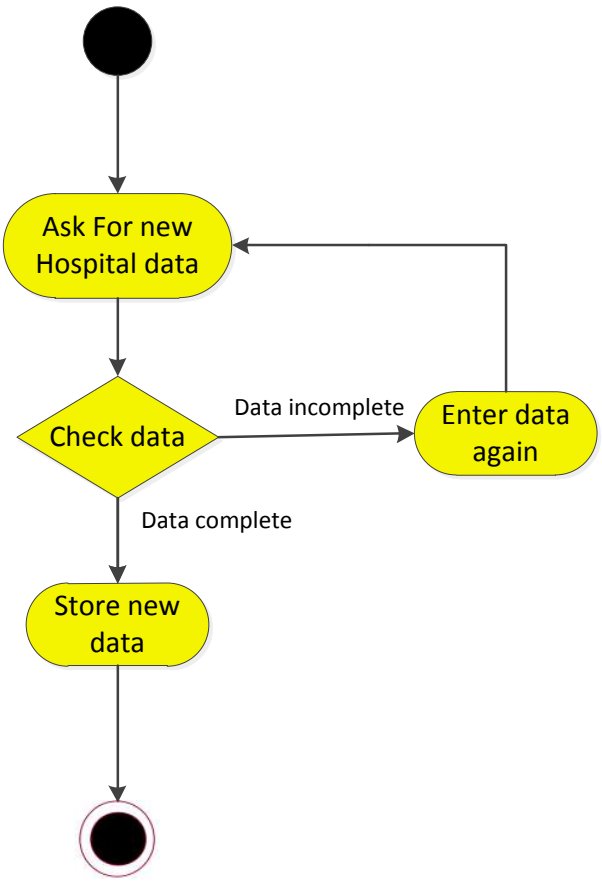
  Normal flow of events:

  - The details of the hospital entered.
  - Save the details.

  Alternate flow of events:

  - A message appears for unfilled fields.
  - The administrator has to fill the details again.

  Post Condition: A new hospital is added to the list of hospitals.



- **Name of use case:** Update Hospital

  Description: Update the profile of a hospital using the administrator privileges.

  Preconditions:

  - Administrator is already logged in.
  - Hospital already present.

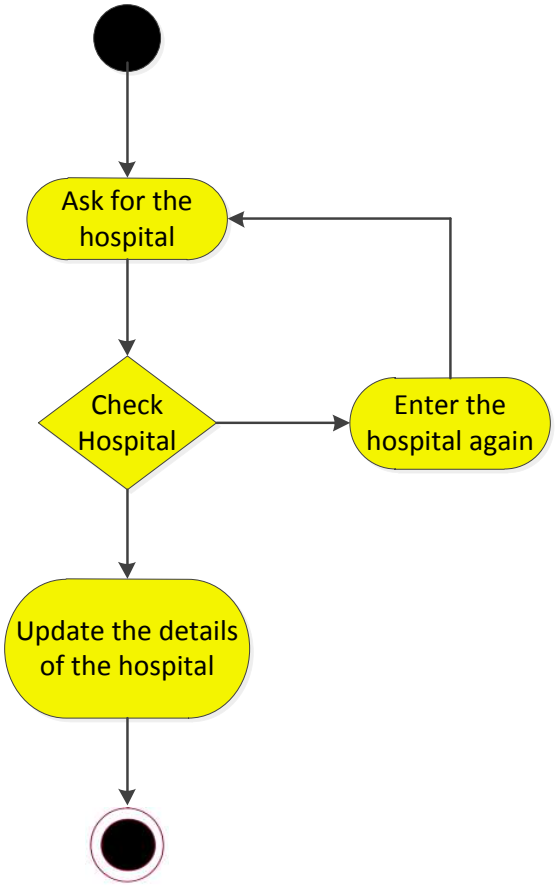
  Normal flow of events:

  - Select Hospital.
  - Edit the data where needed.
  - Save changes.

  Alternate flow of events:

  - A message appears for entering the hospital again.
  - Administrator has to enter the hospital again.

  Post Condition: None.



- **Name of use case:** Add Article

  Description: To publish the article on the website.

  Preconditions:

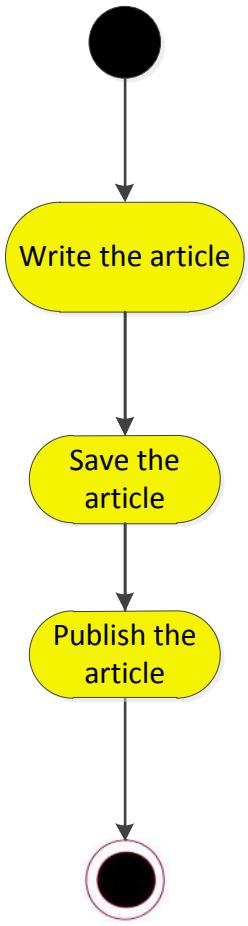
  - Administrator is already logged in.

  Normal flow of events:

  - Write the article.
  - Save the article.
  - Publish the article.

  Alternate flow of events: None

  Post Condition: A new article is published.



- **Name of use case:** Update Article

  Description: Update the article.

  Preconditions:

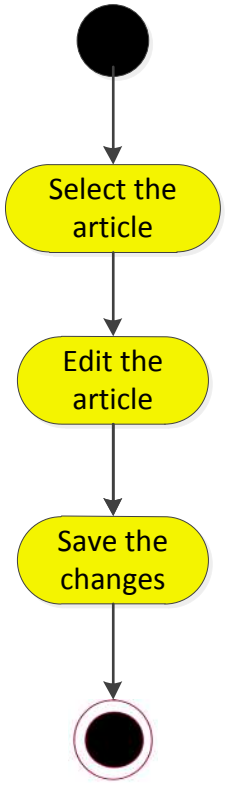
  - Administrator is already logged in.
  - Article already present.

  Normal flow of events:

  - Select Article.
  - Edit the article where needed.
  - Save changes.

  Alternate flow of events: None

  Post Condition: None.



- **Name of use case:** Send Newsletter

  Description: To send the newsletter to the registered users.

  Preconditions:

  - Administrator is already logged in.

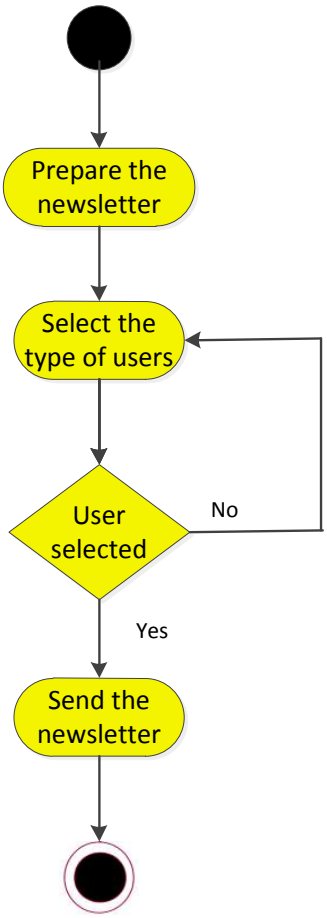
  Normal flow of events:

  - Prepare the newsletter.
  - Select the type of users.
  - Send the newsletter.

  Alternate flow of events:

  - Select the type of users again.
  - Send the newsletter.

  Post Condition: Newsletter is sent.



- **Name of use case:** Add News

  Description: To publish the news on the website.

  Preconditions:

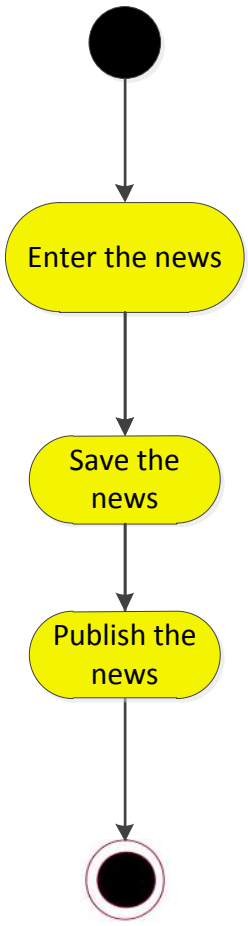
  - Administrator is already logged in.

  Normal flow of events:

  - The news and its details entered.
  - Save the news.
  - Publish the news.

  Alternate flow of events: None

  Post Condition: A new news is published.



- **Name of use case:** Update News

  Description: Update the news.

  Preconditions:

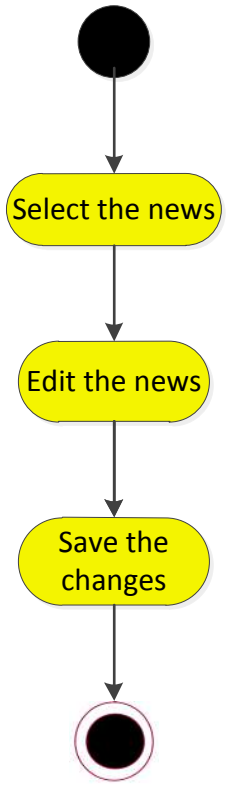
  - Administrator is already logged in.
  - News already present.

  Normal flow of events:

  - Select News
  - Edit the news where needed.
  - Save changes.

  Alternate flow of events: None

  Post Condition: None.



- **Name of use case:** Add Polls

  Description: To add the polls on the website.

  Preconditions:

  - Administrator is already logged in.

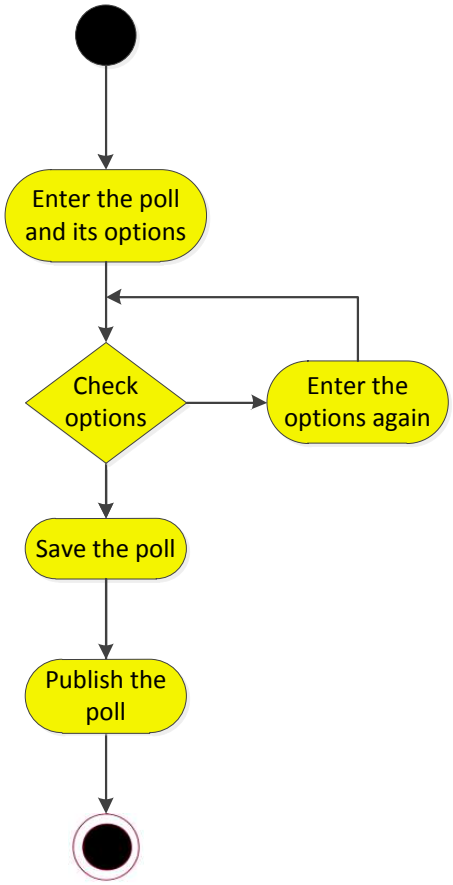
  Normal flow of events:

  - The poll and its options entered.
  - Save the poll.
  - Publish the poll.

  Alternate flow of events:

  - Enter the options.
  - Save the poll.
  - Publish the poll.

  Post Condition: A poll is created.



- **Name of use case:** Update Polls

  Description: Update the poll.

  Preconditions:

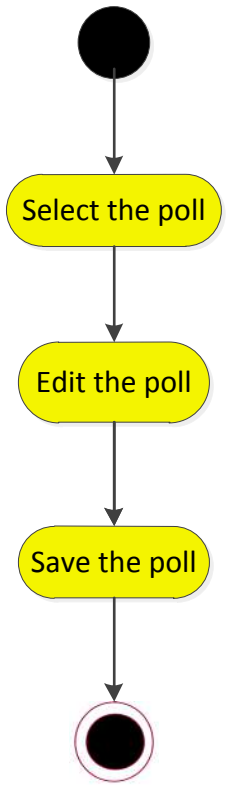
  - Administrator is already logged in.
  - Poll already present.

  Normal flow of events:

  - Select Poll
  - Edit the poll where needed.
  - Save changes.

  Alternate flow of events: None

  Post Condition: None.



- **Name of use case:** Manage Feedback

  Description: Manage the feedback

  Preconditions:

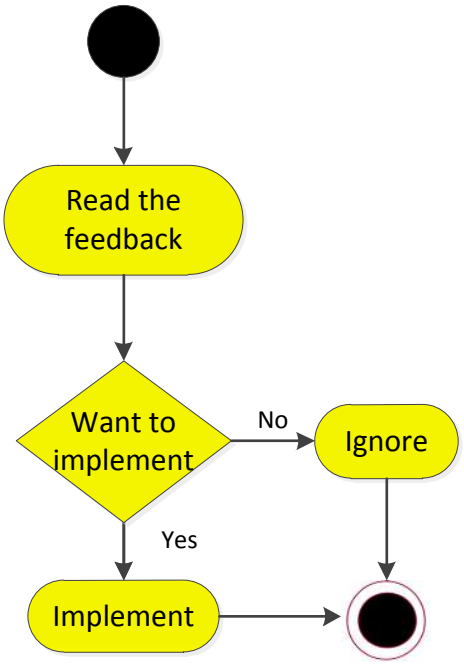
  - Administrator is already logged in.

  Normal flow of events:

  - Read the feedback.
  - Implement it or ignore it.

  Alternate flow of events: None

  Post Condition: None.



- **Name of use case:** Add MCQs

  Description: To add the MCQs related to some type of cancer on the website.

  Preconditions:

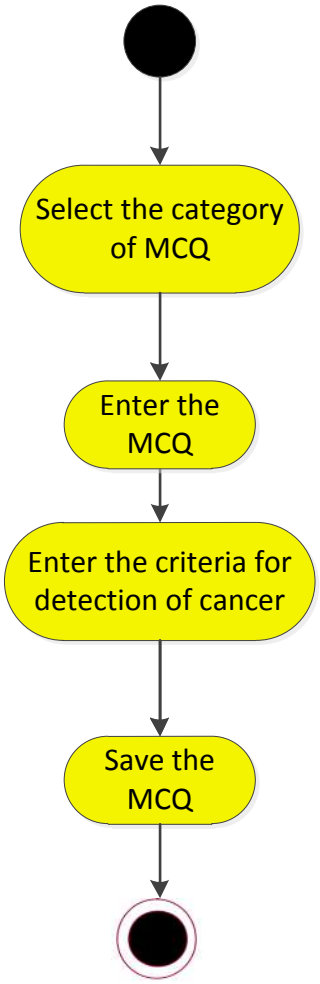
  - Administrator is already logged in.

  Normal flow of events:

  - Category of MCQ selected.
  - Add the MCQ.
  - Add the criteria to decide about the cancer.
  - Save the MCQ.

  Alternate flow of events: None.

  Post Condition: A MCQ is added to the mentioned category.



- **Name of use case:** Update MCQ

  Description: Update the MCQ.

  Preconditions:

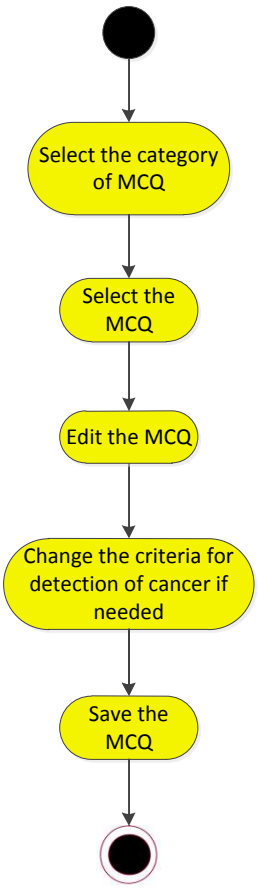
  - Administrator is already logged in.
  - MCQ already present.

  Normal flow of events:

  - Select the category.
  - Select the MCQ.
  - Edit the MCQ where needed.
  - Change the deciding criteria if needed.
  - Save changes.

  Alternate flow of events: None

  Post Condition: None.



- **Name of use case:** Add Event

  Description: To add a new Event on the website.

  Preconditions:

  - Administrator is already logged in.

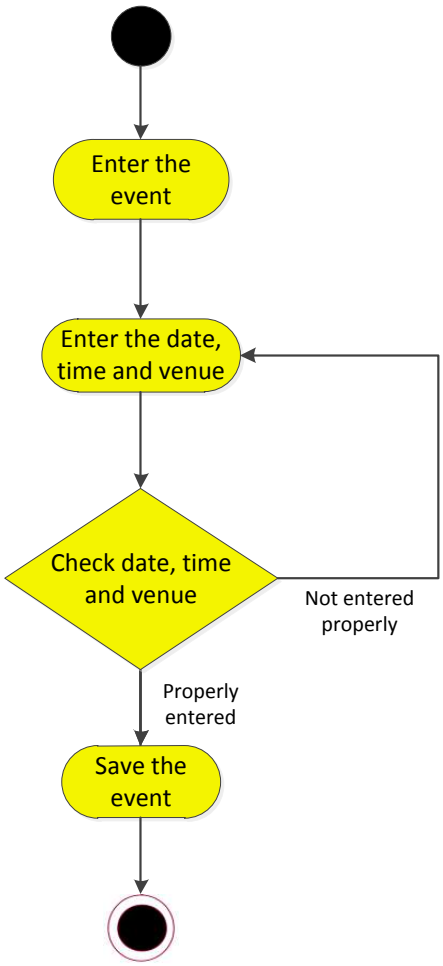
  Normal flow of events:

  - Enter the event.
  - Enter the date, time and venue.
  - Save the event.

  Alternate flow of events:

  - Enter the proper date, time and venue.
  - Save the event.

  Post Condition: An event is added to the list of events.



- **Name of use case:** Update Event

  Description: Update the event.

  Preconditions:

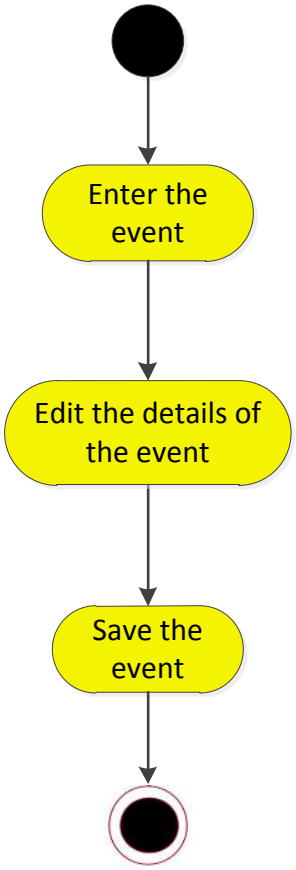
  - Administrator is already logged in.
  - Event already present.

  Normal flow of events:

  - Select the Event.
  - Edit the Event where needed.
  - Save changes.

  Alternate flow of events: None

  Post Condition: None.



iii) Monitor User Activity

- **Name of use case:** Monitor User Activity

  Description: monitor the user activity by viewing strategic data and graphs about contributors to the site, regular users, age groups of users etc.

  Preconditions:

  - Administrator is already logged in.

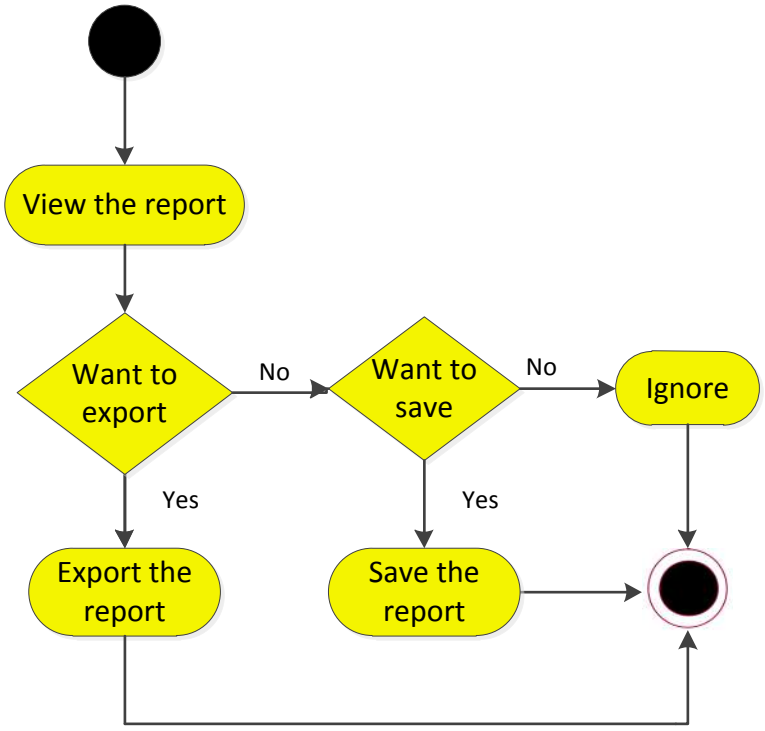
  Normal flow of events:

  - View the report
  - Export the report.

  Alternate flow of events:

  - Save the report or ignore it.

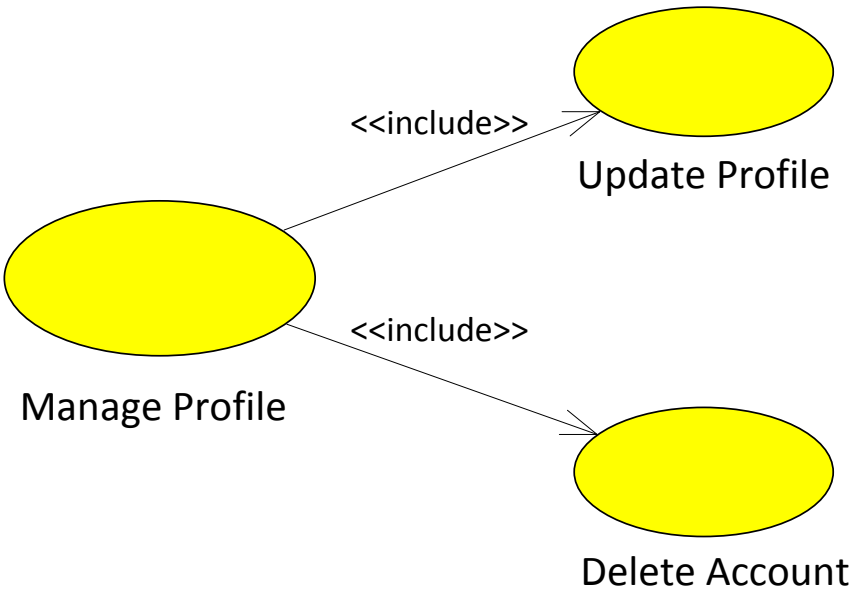
  Post Condition: None.



3.1.2 **Doctor:** Responsible for helping the disease affected women and share their case studies with them.

- **Manage Profile:** The Doctor will manage his profile which is visible to everyone. This will contain his personal as well as professional details. The doctor can change his profile based on various parameters.
- **Manage Case Studies:** The Doctor can upload his case studies including various photos and videos related to the case study. These case studies will help women in understanding the disease in a better way.
- **Use User Services:** The Doctor can use various user services like writing an article, answering the questions asked by women and helping the administrator by sending the valuable feedback about the website.

i) Manage Profile



- **Name of use case:** Update Profile

  Description: Any updation in the profile can be done.

  Preconditions:

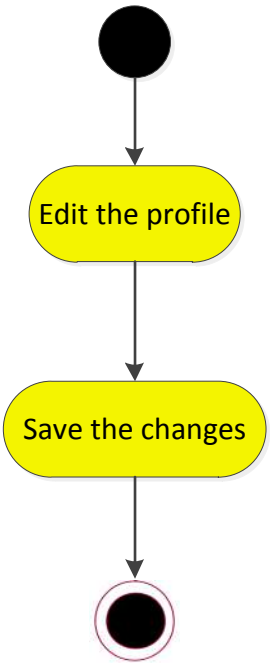
  - Doctor is already logged in.

  Normal flow of events:

  - Edit the profile.
  - Save the changes.

  Alternate flow of events: None.

  Post Condition: Profile of doctor is updated.



- **Name of use case:** Delete Account

  Description: Doctor can delete the account.

  Preconditions:

  - Doctor is already logged in.

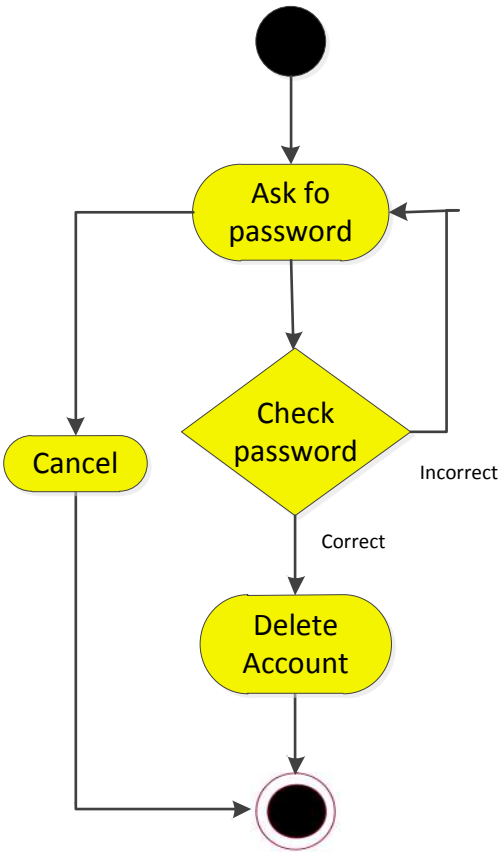
  Normal flow of events:

  - Ask for password.
  - Delete account.

  Alternate flow of events:

  - Ask for password again if wrong password given.
  - Exit if do not wish to delete the account.

  Post Condition: None



ii) Manage Case Study

- **Name of use case:** Manage Case Study

  Description: Doctor can manage his case study by uploading photos and videos.

  Preconditions:

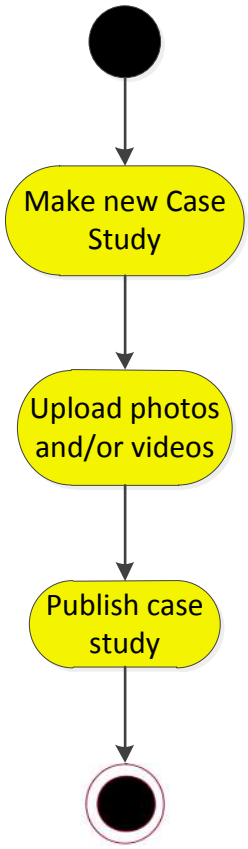
  - Doctor is already logged in.

  Normal flow of events:

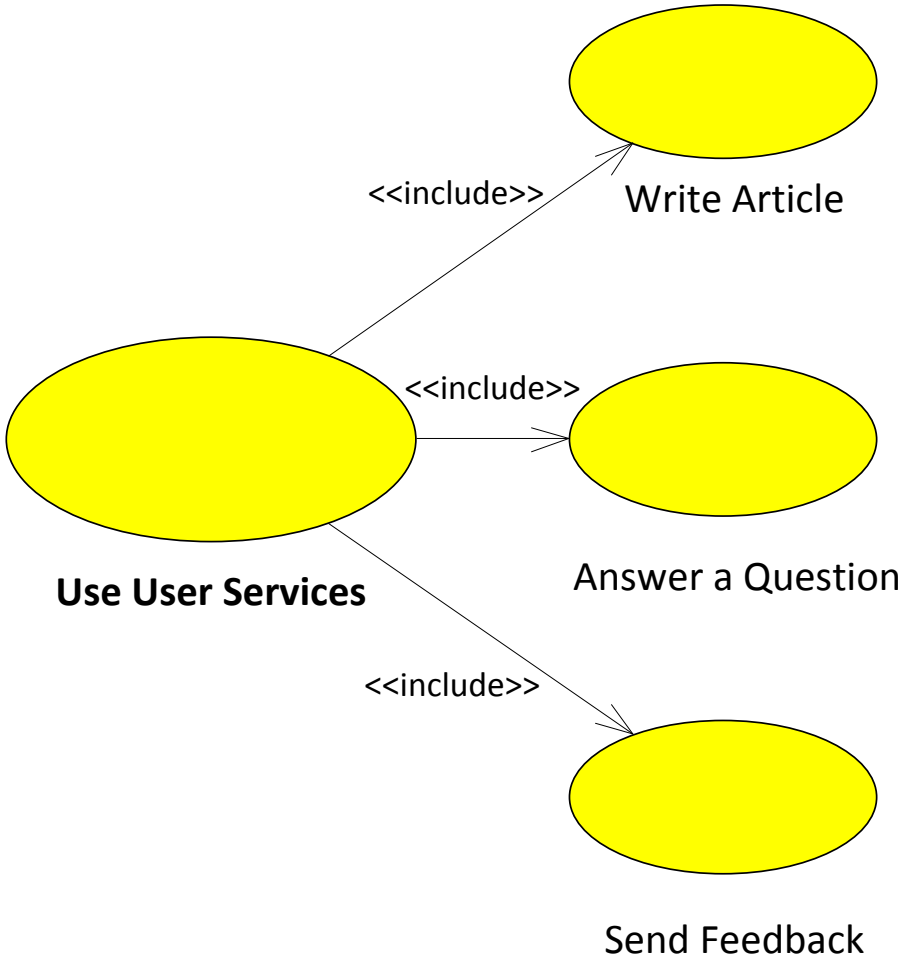
  - Make New Case Study.
  - Upload Photos and/or videos.
  - Publish Case Study.

  Alternate flow of events: None

  Post Condition: Case Study is published.



iii) Use User Services



- **Name of use case:** Write Article

  Description: The doctor can write an article.

  Preconditions:

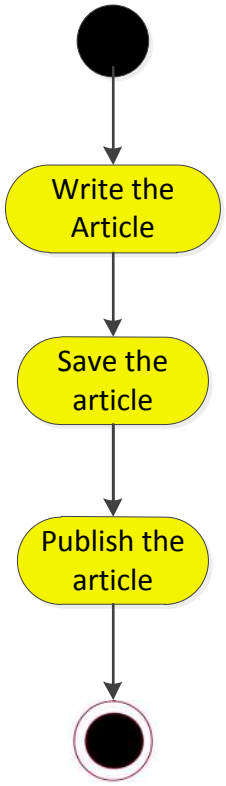
  - Doctor is already logged in.

  Normal flow of events:

  - Write the article.
  - Save the article.
  - Publish the article.

  Alternate flow of events: None

  Post Condition: Article is published.



- **Name of use case:** Answer a Question

  Description: The doctor can answer a question asked by any other user.

  Preconditions:

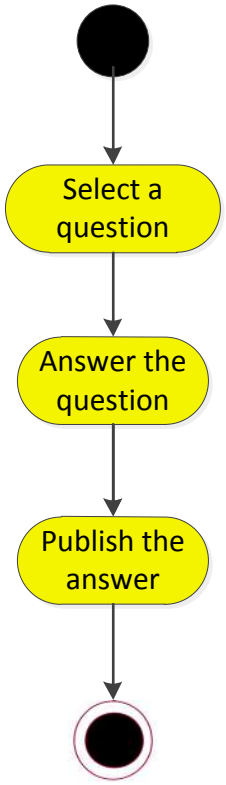
  - Doctor is already logged in.

  Normal flow of events:

  - Select a question.
  - Answer the question.
  - Publish the answer.

  Alternate flow of events: None

  Post Condition: Answer to a question is published.



- **Name of use case:** Send Feedback

  Description: The doctor can give feedback to the administrator.

  Preconditions:

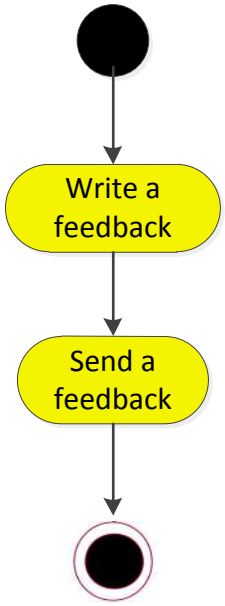
  - Doctor is already logged in.

  Normal flow of events:

  - Write the feedback.
  - Send the feedback.

  Alternate flow of events: None

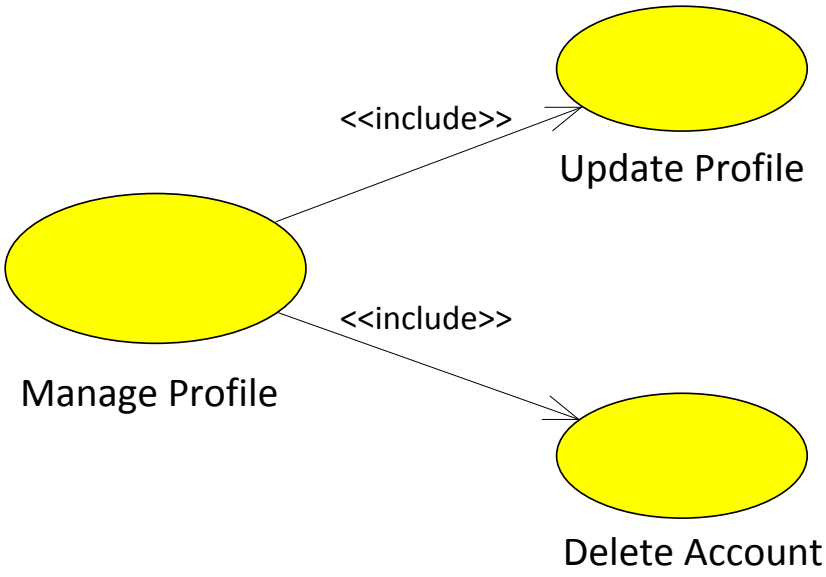
  Post Condition: Feedback is sent to the administrator.



3.1.3 **Women Welfare Organization:** Responsible for spreading awareness through articles and organizing events.

- **Manage Profile:** The WWO will manage its profile which is visible to everyone. This will contain its professional details. The WWO can change its profile based on various parameters.
- **Use User Services:** The WWO can use various user services like writing an article, organizing the events and helping the administrator by sending the valuable feedback about the website.

i) Manage Profile



- **Name of use case:** Update Profile

  Description: Any updation in the profile can be done.

  Preconditions:

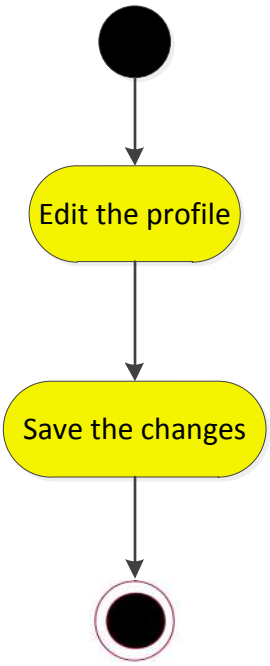
  - WWO is already logged in.

  Normal flow of events:

  - Edit the profile.
  - Save the changes.

  Alternate flow of events: None.

  Post Condition: Profile of WWO is updated.



- **Name of use case:** Delete Account

  Description: WWO can delete the account.

  Preconditions:

  - WWO is already logged in.

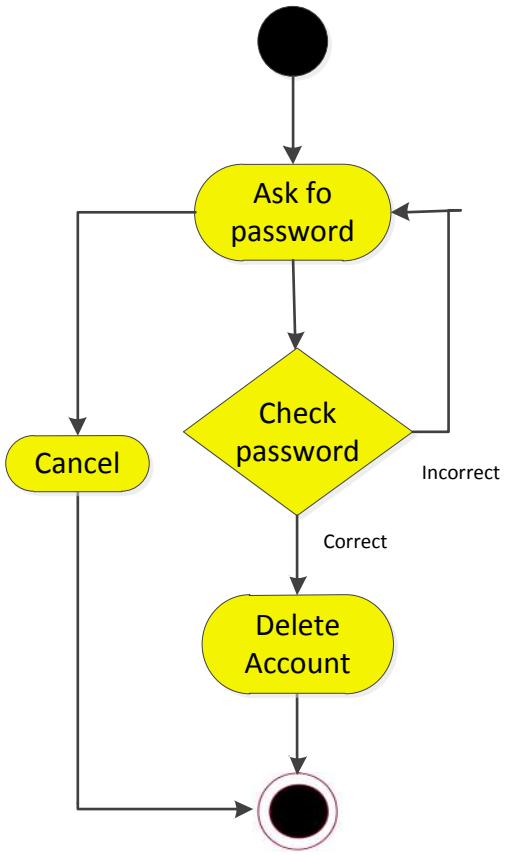
  Normal flow of events:

  - Ask for password.
  - Delete account.

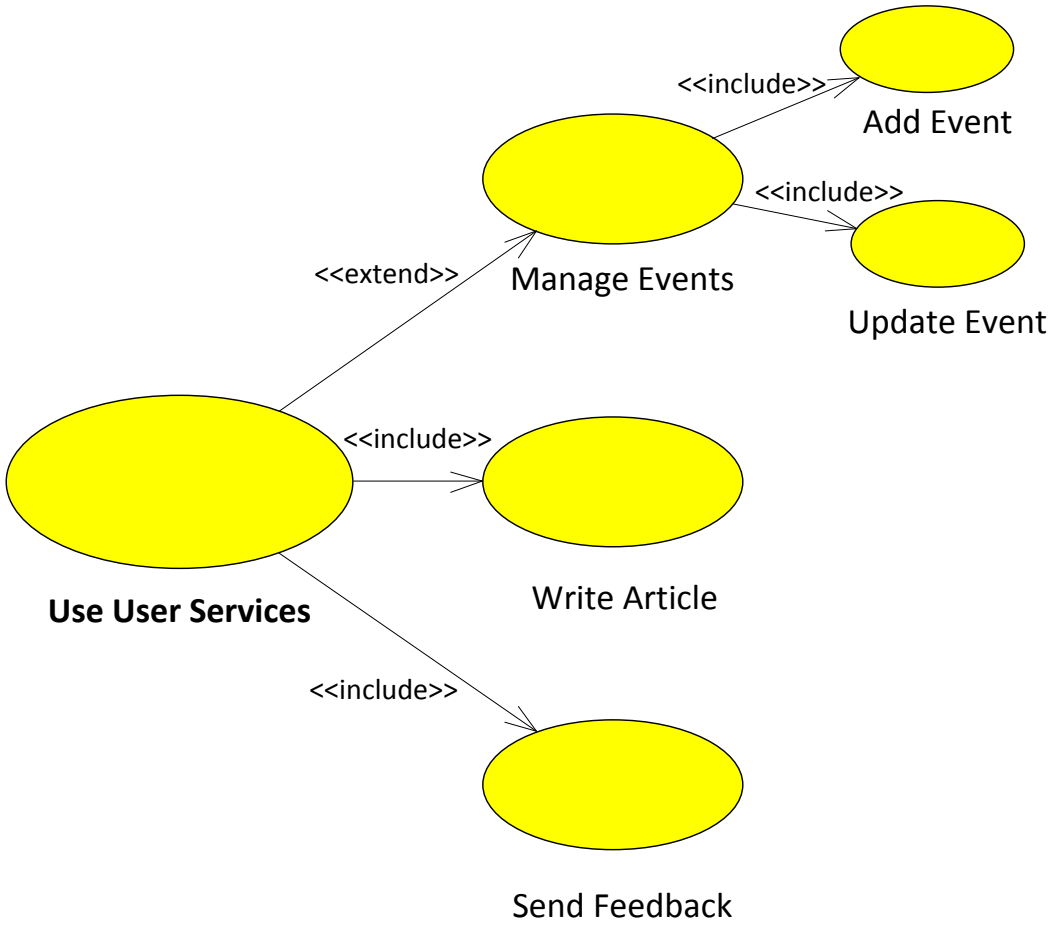
  Alternate flow of events:

  - Ask for password again if wrong password given.
  - Exit if do not wish to delete the account.

  Post Condition: None



ii) Use User Services



- **Name of use case:** Add Event

  Description: To add a new Event on the website.

  Preconditions:

  - WWO is already logged in.

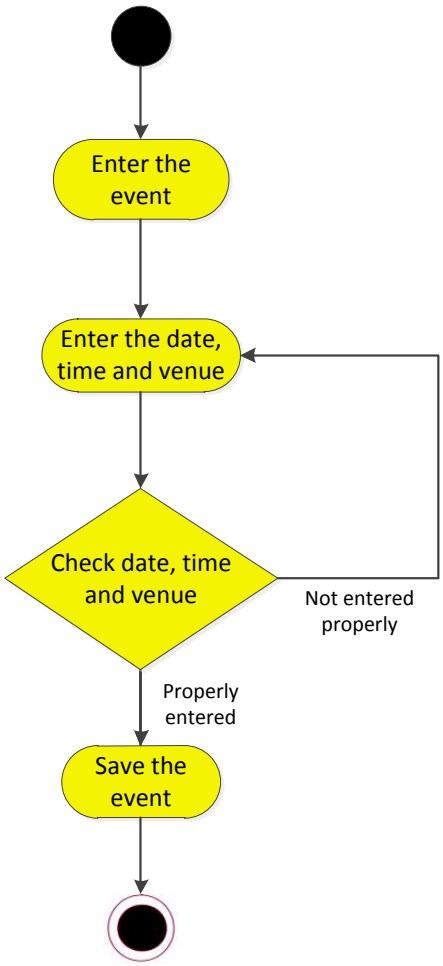
  Normal flow of events:

  - Enter the event.
  - Enter the date, time and venue.
  - Save the event.

  Alternate flow of events:

  - Enter the proper date, time and venue.
  - Save the event.

  Post Condition: An event is added to the list of events.



- **Name of use case:** Update Event

  Description: Update the event.

  Preconditions:

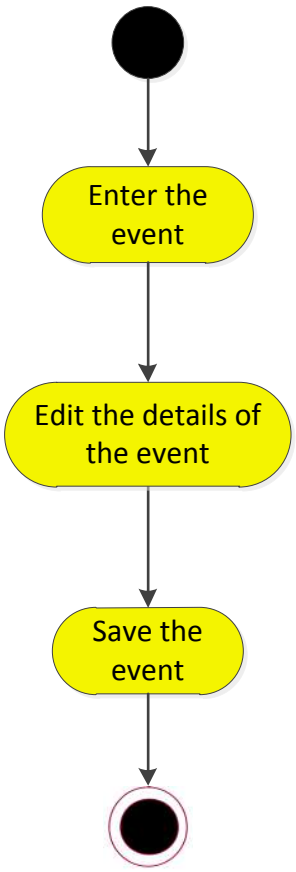
  - WWO is already logged in.
  - Event already present.

  Normal flow of events:

  - Select the Event.
  - Edit the Event where needed.
  - Save changes.

  Alternate flow of events: None

  Post Condition: None.



- **Name of use case:** Write Article

  Description: The WWO can write an article.

  Preconditions:

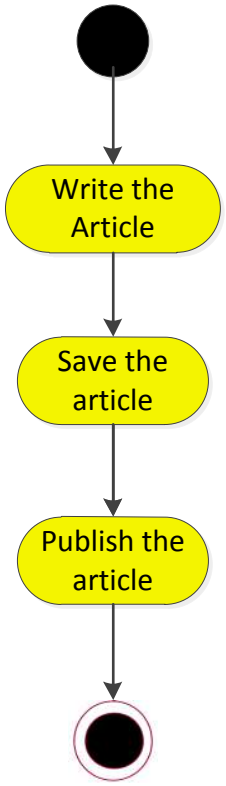
  - WWO is already logged in.

  Normal flow of events:

  - Write the article.
  - Save the article.
  - Publish the article.

  Alternate flow of events: None

  Post Condition: Article is published.



- **Name of use case:** Send Feedback

  Description: The WWO can give feedback to the administrator.

  Preconditions:

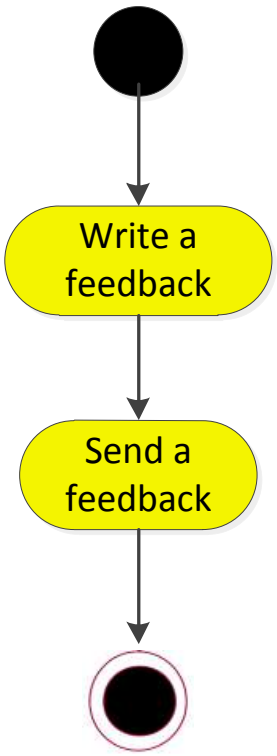
  - WWO is already logged in.

  Normal flow of events:

  - Write the feedback.
  - Send the feedback.

  Alternate flow of events: None

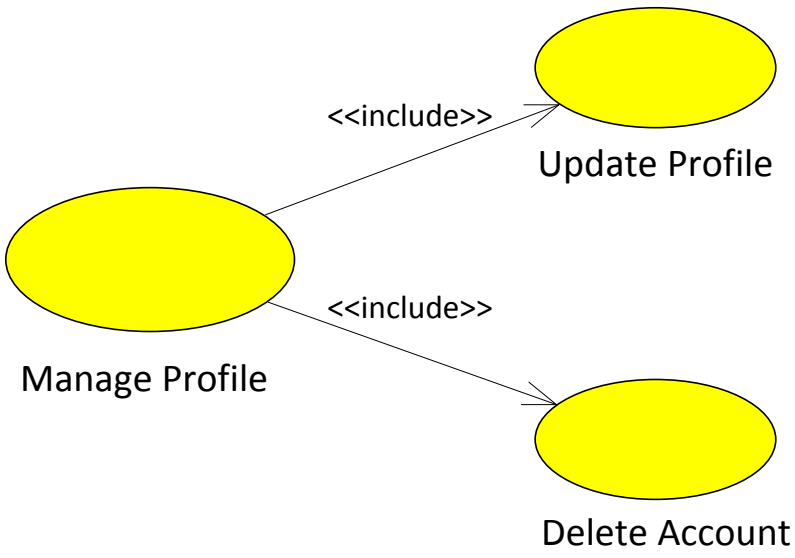
  Post Condition: Feedback is sent to the administrator.



3.1.4 **Women:** Disease Affected or cured women is the main user of the website. Women will use various resources on the website to know more about women specific cancer.

- **Manage Profile:** The disease affected or cured women will manage its profile which is visible to everyone. The disease affected or cured women can change her profile based on various parameters.
- **Use User Services:** The disease affected or cured women can use various user services and help the administrator by sending the valuable feedback about the website.

i) Manage Profile



- **Name of use case:** Update Profile

  Description: Any updation in the profile can be done.

  Preconditions:

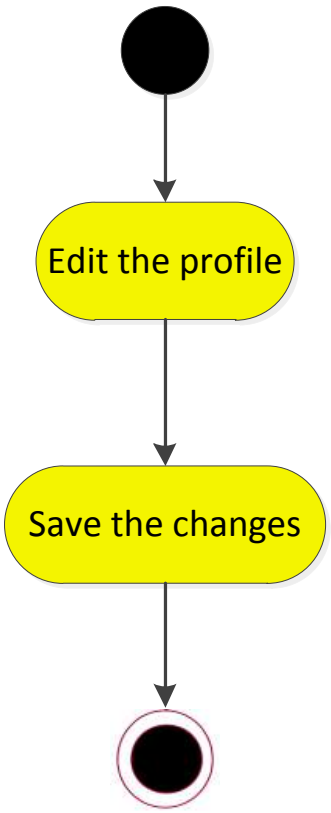
  - Women is already logged in.

  Normal flow of events:

  - Edit the profile.
  - Save the changes.

  Alternate flow of events: None.

  Post Condition: Profile of women is updated.



- **Name of use case:** Delete Account

  Description: Women can delete the account.

  Preconditions:

  - Women is already logged in.

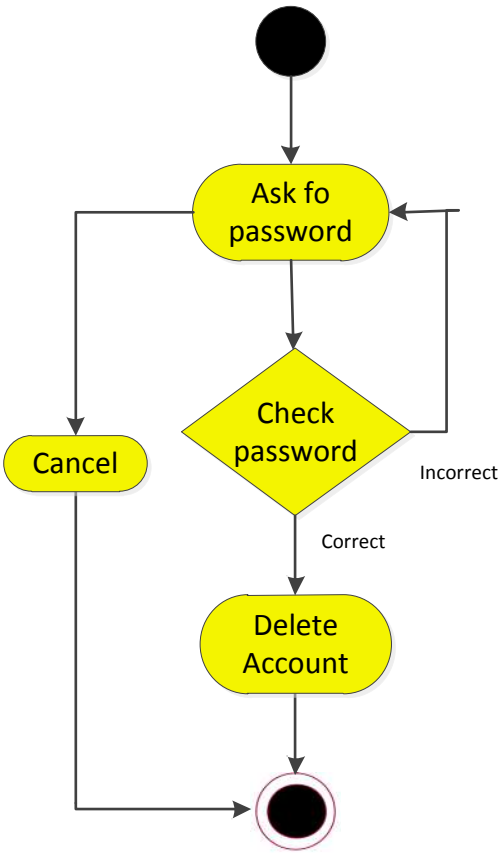
  Normal flow of events:

  - Ask for password.
  - Delete account.

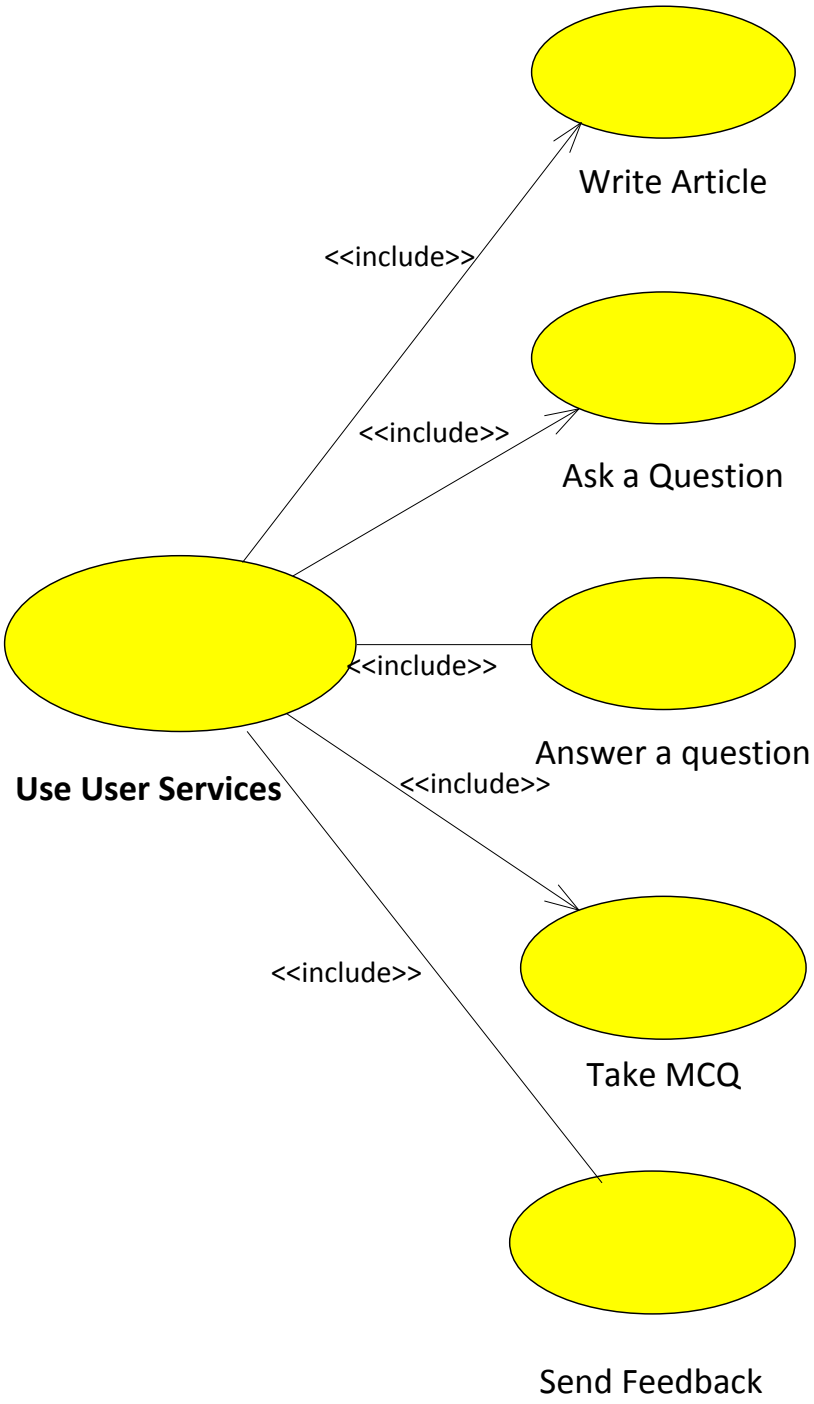
  Alternate flow of events:

  - Ask for password again if wrong password given.
  - Exit if do not wish to delete the account.

  Post Condition: None



ii) Use User Services



- **Name of use case:** Write Article

  Description: The Women can write an article.

  Preconditions:

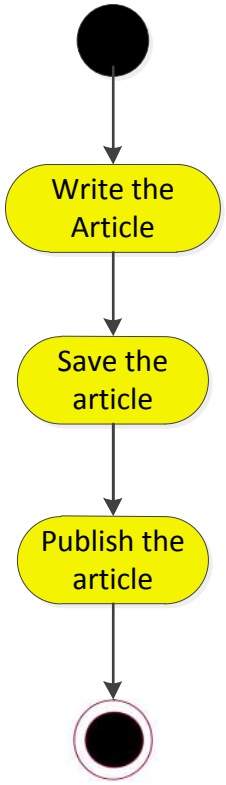
  - Women is already logged in.

  Normal flow of events:

  - Write the article.
  - Save the article.
  - Publish the article.

  Alternate flow of events: None

  Post Condition: Article is published.



- **Name of use case:** Ask a Question

  Description: The Women can ask a question to be answered.

  Preconditions:

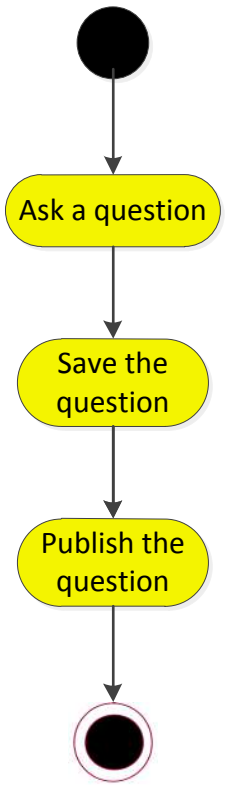
  - Women is already logged in.

  Normal flow of events:

  - Ask a question.
  - Save the question.
  - Publish the question.

  Alternate flow of events: None

  Post Condition: A new question is published.



- **Name of use case:** Answer a Question

  Description: The Women can answer a question asked by any other user.

  Preconditions:

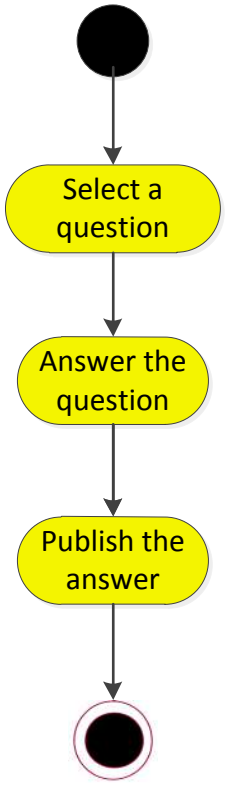
  - Women is already logged in.

  Normal flow of events:

  - Select a question.
  - Answer the question.
  - Publish the answer.

  Alternate flow of events: None

  Post Condition: Answer to a question is published.



- **Name of use case:** Take a MCQ

  Description: The Women can take a MCQ and analyze her condition.

  Preconditions:

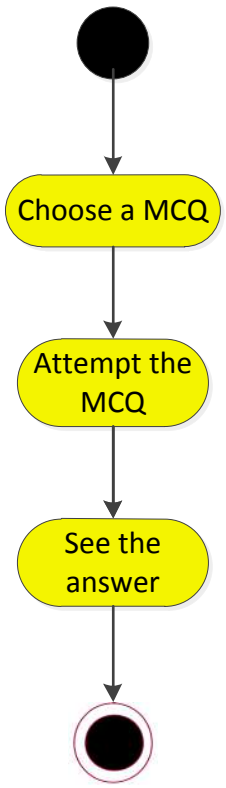
  - Women is already logged in.

  Normal flow of events:

  - Choose a MCQ.
  - Attempt the MCQ.
  - See the answer.

  Alternate flow of events: None

  Post Condition: None.



- **Name of use case:** Send Feedback

  Description: The Women can give feedback to the administrator.

  Preconditions:

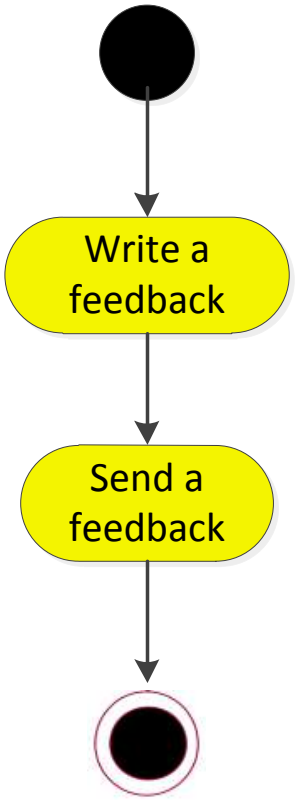
  - Women is already logged in.

  Normal flow of events:

  - Write the feedback.
  - Send the feedback.

  Alternate flow of events: None

  Post Condition: Feedback is sent to the administrator.



3.2 Supplementary Requirements

- **Have hours of operation that are 24 x 7** - Because system can be an automated process, so it can stay open for 24 hours a day. If the base is now the entire world, staying open 24 hours a day becomes critical.
- **Make the existing Web site more dynamic in nature -** Many early Web implementations consisted of static HTML pages. This becomes very difficult to manage if the number of pages gets too large. An effective system should be largely dynamic taking advantage of technology that automates this process rather than relying on manual processes.
- **Providing session management capability** - Web application developers should not spend valuable time worrying about how to maintain sessions within the application. The Web Application Server should provide these services.