



**Epoka University**

**Faculty of Engineering and Architecture**

**Department of Computer Engineering CEN302 – Software Engineering**

**PMS Requirements Specification**

**May 26, 2023**

***HobbyTales Requirements Specification***

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**Prepared by:**

Faik Koprenca

Enris Kumi

Redi Ceni

Daniel Abdiaj

Fjoralb Tashi

Ervin Shyti

Beniamin Lloshi

**Received by:** Msc. Ari Gjerazi

## Table of Contents

<b>1. EXECUTIVE SUMMARY .....</b>	<b>4</b>
1.1 PROJECT OVERVIEW .....	4
1.2 PURPOSE AND SCOPE OF THIS SPECIFICATION .....	4
<b>2. PRODUCT/SERVICE DESCRIPTION .....</b>	<b>5</b>
2.1 PRODUCT CONTEXT .....	5
2.2 USER CHARACTERISTICS .....	6
2.3 ASSUMPTIONS .....	7
2.4 CONSTRAINTS.....	8
2.5 DEPENDENCIES .....	9
<b>3. REQUIREMENTS .....</b>	<b>10</b>
3.1 FUNCTIONAL REQUIREMENTS .....	10
3.2 NON-FUNCTIONAL REQUIREMENTS .....	14
3.2.1 <i>Product Requirements</i> .....	14
3.2.1.1 User Interface Requirements .....	14
3.2.1.2 Learnability .....	18
3.2.1.3 Accessibility .....	18
3.2.1.4 Efficiency .....	18
3.2.1.5 Memorability .....	18
3.2.1.6 Errors .....	18
3.2.1.7 Satisfaction .....	19
3.2.1.8 Capacity .....	19
3.2.2 <i>Organizational Requirements</i> .....	19
3.2.2.1 Availability .....	19
3.2.2.2 Latency .....	19
3.2.2.3 Monitoring .....	20
3.2.2.4 Maintenance .....	20
3.2.2.5 Operations .....	20

## *HobbyTales Documentation*

3.2.2.6 Standards Compliance .....	21	
3.2.2.7 Portability .....	21	
3.2.3 External Requirements .....	21	
3.2.3.1 Security .....	21	
3.2.3.2 Protection .....	22	
3.2.3.3 Authorization and Authentication .....	22	
3.3 DOMAIN REQUIREMENTS .....	22	
<b>4. SOFTWARE DESIGN / DIAGRAMS .....</b>	<b>23</b>	
4.1 REQUIREMENTS ANALYSIS .....	23	
4.1.1 User Scenarios .....	23	
4.1.1.1 User Scenarios List .....	23	
4.1.1.2 User Scenarios Extended .....	24	
4.1.2 User Cases .....	32	
4.2 BEHAVIORAL DIAGRAMS .....	45	
4.2.1 Use Case Diagrams .....	45	
4.2.2 Activity Diagrams .....	50	
4.2.3 State Diagrams.....	67	
4.2.4 Sequence Diagrams .....	72	
4.2.5 Collaboration Diagrams .....	77	
4.3 DATA FLOW DIAGRAMS .....	78	
4.4 ENTITY RELATION .....	81	
4.4.1 Database Schema Design .....	81	
4.4.2 Entity Relation Diagram .....	82	
4.5 STRUCTURAL DIAGRAMS .....	83	
4.5.1 Class Diagram .....	83	
<hr/> <td>    4.5.2 Object Diagrams .....</td> <td>86</td>	4.5.2 Object Diagrams .....	86
4.5.3 Component Diagrams .....	87	
4.5.4 Deployment Diagram .....	88	

5.	IMPLEMENTATION TECHNOLOGY .....	89
6.	PROJECT PLANNING .....	119
7.	APPENDIX .....	122
7.1	APPENDIX A - DEFINITIONS, ACRONYMS AND ABBREVIATIONS. ....	122
7.2	APPENDIX B - REFERENCES .....	122
7.3	APPENDIX C - FILE FORMAT .....	123
7.4	APPENDIX D - SKETCHES .....	126
7.5	APPENDIX E - DETAILED DESIGNS .....	137

## **1. Executive Summary**

### ***1.1 Project Overview***

In the digital age, social media platforms have transformed the way we connect, communicate, and share our experiences with others. These platforms have not only revolutionized our social interactions but have also influenced our behavior.

This influence has inspired the creation of this project. As is apparent from the first two sentences this project is on creating a social media. In our digital era they (social medias) do not come in few, they are from the most types and focuses, from general to social medias entirely for specific groups of communities. What we intend with our social media however in to use its influence and to encourage the users, from any group age to not be stuck in the virtualization and it's not healthy approach to human interaction.

Our main purpose is to connect people in a more healthy outdoor “virtualization”, despite the features of any social media, our users post are intended to be invitations to different activities. At the core of this social media project lies a vision to bridge the gap between the virtual and physical realms. By leveraging innovative technologies and the ubiquity of social networking platforms, we aim to create a digital community that inspires individuals to step away from their screens and immerse themselves in real-world experiences.

The impact of social media in encouraging people to engage in outdoor activities cannot be understated. With the rise of influencer culture and user-generated content, individuals have been inspired to venture outside their comfort zones and participate in a wide range of activities, from hiking and photography to culinary experiences and cultural events. By leveraging this influence, our social media project aims to amplify these positive effects, making exploration and experiential learning an integral part of people's lives.

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Moreover, the project will emphasize community building and fostering connections among like-minded individuals. This sense of community will further motivate and inspire users to explore diverse activities and push their boundaries.

We recognize the importance of responsible use of technology and mindful engagement with the physical world. We aim to strike a balance between digital interaction and real-world experiences, encouraging users to utilize the platform as a catalyst for exploration.

In conclusion, this social media project represents an opportunity to leverage the power of technology to inspire individuals to step outside and embrace a world of possibilities.

## **1.2 Purpose and Scope of this Specification**

In a world filled with diverse hobbies and outdoor activities, there exists a need for a social media platform that caters to the interests and passions of its users. This project aims to develop a specialized social media platform that revolves around hobbies, empowering individuals to organize and participate in event-like posts centered on outdoor activities. By fostering connections, facilitating group participation, and promoting real-life experiences, this platform will inspire users to come together and embark on thrilling adventures.

The primary objective of this hobby-centric social media platform is to provide a space where users can create event-style posts based on their specific interests and activities. Whether it's hiking, biking, photography, sports, or any other outdoor pursuit, users will have the freedom to curate posts that invite like-minded individuals to join in. Through a straightforward and intuitive interface, users can easily create and manage these activity-based posts, specifying the time, date, and location for the event.

One of the key features of this platform is the "Join" button, enabling users to express their interest in participating in a particular activity. Once a user joins an event post, they will be presented with an option to join a chat space dedicated to that specific event. This chat space will serve as a virtual meeting point for participants, allowing them to connect, share ideas, discuss logistics, and build anticipation for the upcoming outdoor activity.

The time element plays a crucial role in this social media platform. Each event post will include a designated time when participants will meet and actively take part in the activity they signed up for. This not only provides a structured framework for planning and coordination but also ensures that users have a tangible goal to work towards. By having a set meeting time, participants can anticipate shared experiences, forge friendships, and foster a sense of community among fellow hobby enthusiasts.

This project acknowledges the significance of engaging with the physical world and the inherent value of real-life connections. While the social media platform facilitates digital interactions and event organization, its ultimate purpose is to inspire users to step outside, explore nature, and embrace the joys of their hobbies. By merging the virtual and physical realms, this platform aims to motivate individuals to experience the world in a more active, immersive, and socially fulfilling manner.

## **2. Product/Service Description**

Purpose:

The purpose of this social media platform is to provide a comprehensive service for users to create, share, and discover event-based posts that announce a wide range of activities aligned with their interests. The platform aims to facilitate community engagement, foster real-life connections, and inspire individuals to participate in diverse events and experiences.

Service Description:

Our social media platform is designed to cater to the needs of individuals seeking to organize, publicize, and join various activities. The platform offers a user-friendly interface that empowers users to create detailed event-based posts, highlighting the nature of the activity, its date, time, location, and any relevant instructions or prerequisites.

Users can explore a rich array of activities organized by fellow community members, encompassing a wide spectrum of interests such as sports, arts, music, wellness, outdoor adventures, workshops, cultural events, and more. The platform provides intuitive search and filtering capabilities, allowing users to discover events that align with their specific preferences and geographic location.

To join an event, users simply click on the "Join" button, expressing their interest and intention to participate. This action establishes a connection between the event organizer and the participant, enabling seamless communication and coordination. Additionally, users gain access to a dedicated chat space associated with the event, providing a platform for participants to interact, ask questions, share suggestions, and build excitement prior to the activity.

The platform places great emphasis on facilitating real-life experiences. Each event post includes a scheduled meeting time, serving as a point of convergence for participants. This feature ensures that users have a set time to engage actively in the chosen activity, fostering a sense of commitment, punctuality, and shared enjoyment.

Furthermore, the social media platform encourages users to share their event experiences through posts, photos, videos, and comments. Participants can chronicle their adventures, highlight memorable moments, and inspire others within the community. This content-sharing feature not only captures the essence of each event but also facilitates community engagement and encourages participation in future activities.

The platform also incorporates feedback and rating systems, allowing users to provide reviews and evaluations for events they have attended. This information helps enhance the overall event quality, builds trust within the community, and assists future participants in making informed decisions.

In summary, our social media platform focuses on providing a comprehensive service for creating, sharing, and disc-

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overing event-based posts. By facilitating seamless event organization, promoting real-life connections, and fostering a vibrant community of participants, the platform strives to inspire individuals to engage in exciting activities, expand their horizons, and forge lasting connections with like-minded individuals who share their passions.

## **2.1 Product Context**

This product is designed to be independent and self-contained, providing a dedicated platform for creating, sharing, and discovering event-based posts. While it operates as a standalone social media platform, it does not rely on or interface with other external systems or platforms.

As a self-contained product, users can utilize all the features and functionalities within the platform itself, including creating event posts, joining activities, engaging in chat spaces, and sharing event-related content. The platform provides a holistic experience, encompassing event organization, communication, and documentation, without the need for integration with external systems.

However, it's worth noting that the product may have its own ecosystem of users, event organizers, and participants, forming a community within the platform. Users can interact and connect with each other solely within the platform's environment, building relationships, sharing experiences, and discovering new activities organized by fellow users.

While the product does not rely on external systems, it may leverage standard web technologies and APIs for its internal operations. In addition to being a self-contained product, this social media platform utilizes various AWS (Amazon Web Services) services for essential functionalities such as authentication and data storage. These AWS services provide robust and reliable solutions to ensure the smooth operation of the platform.

These underlying technologies ensure the smooth functioning of the platform while maintaining its self-contained nature.

## **2.2 User Characteristics**

There is one type of users that will interact with the system:

1. Hobby Enthusiast:
  - Experience: This user profile consists of individuals with varying levels of experience in their respective hobbies. They may range from beginners exploring a new interest to experienced enthusiasts with extensive knowledge and skills.
  - Technical Expertise: They may have basic to intermediate technical skills, comfortable with using smartphones, web browsers, and social media platforms. They are familiar with common features and functionalities found in social media applications.
  - Characteristics: These users are passionate about their hobbies and seek opportunities to connect with like-minded individuals. They value the ability to discover and participate in a wide range of activities through the platform. They may be actively involved in multiple hobbies and enjoy exploring new interests.

2. Event Organizer:

- Experience: This user profile consists of individuals who have experience organizing and hosting events related to their hobbies or interests. They may have planned and executed activities in the past, demonstrating a level of expertise in event management.
- Technical Expertise: They possess intermediate to advanced technical skills, comfortable using digital tools and platforms for event organization and communication. They may have experience with event management software or similar platforms.
- Characteristics: These users have a knack for planning and coordinating activities. They enjoy taking the initiative to create engaging event posts and providing a positive experience for participants. They value the platform's ability to reach a wider audience and facilitate seamless communication with event attendees.

**3. Activity Participant:**

- Experience: This user profile includes individuals who enjoy participating in activities organized by others. They may have varying levels of experience in their chosen hobbies, ranging from beginners to advanced practitioners.
- Technical Expertise: They have basic to intermediate technical skills, able to navigate social media platforms, join events, and engage in communication features such as chat spaces. They are comfortable using smartphones or computers for online interactions.
- Characteristics: These users seek opportunities to explore their hobbies further and connect with individuals who share similar interests. They appreciate the convenience of discovering and joining activities through the platform. They may value flexibility in choosing activities that align with their schedules and preferences.

**4. Content Contributor:**

- Experience: This user profile consists of individuals who enjoy documenting and sharing their experiences within their hobbies. They may have experience in content creation, such as photography, videography, or writing, to capture and showcase their activities.
- Technical Expertise: They possess intermediate to advanced technical skills, proficient in using digital media tools for editing photos or videos. They are comfortable sharing multimedia content on social media platforms.
- Characteristics: These users are enthusiastic about capturing and sharing their hobby-related content. They appreciate the platform's ability to showcase their work, gather feedback, and inspire others. ~~They may actively engage with the community, providing valuable insights and tips related to their hobbies.~~

**2.3 Assumptions**

- Internet Access: It is assumed that users have reliable internet access to connect to the social media platform, create posts, join activities, and engage with other participants. The platform relies on internet connectivity for its core functionality.
- Device Compatibility: The platform assumes that users have access to devices such as smartphones, tablets, or computers that are capable of accessing and interacting with the social media platform. The platform's user interface and features are designed to be compatible with common devices and web browsers.
- Standard Web Technologies: It is assumed that users have browsers or devices that support standard web technologies such as HTML5, CSS, and JavaScript. These technologies are utilized by the platform for its user interface and interactive features.
- Basic Computer Literacy: Users are assumed to possess basic computer literacy skills, including familiarity with web browsing, form filling, and understanding common user interface elements. This level of proficiency is necessary for users to navigate the platform, create event posts, join activities, and interact with other participants effectively.
- AWS Service Availability: The platform's reliance on AWS services, such as AWS Cognito for authentication and AWS S3 for data storage, assumes that these services are available and functioning properly. The platform's requirements are aligned with the assumption that these AWS services can be utilized seamlessly.
- Legal Compliance: The platform assumes that users will comply with applicable laws and regulations related to content creation, sharing, and participation in activities. Users are expected to adhere to community guidelines and standards when creating event posts and engaging with others on the platform.
- Language and Localization: The platform assumes that users have a working proficiency in the language(s) supported by the platform. The user interface and communication within the platform are designed with the assumption of a specific language or set of languages.
- User-generated Content Ownership: The platform assumes that users hold the rights and permissions to the content they create and share on the platform. It is expected that users will not violate any copyright or intellectual property rights when sharing multimedia content.

## **2.4 Constraints**

- The receptionist of the polyclinic and every doctor of the polyclinic should have a personal computer available during the work hours in order to be able to access this web application.
  - The receptionist of the polyclinic as well as every doctor of the polyclinic should know how to use this web application. They should know their capabilities and their duties in order not to interfere with each other and to respect the privacy of their patients. Using this application efficiently and correctly will increase the performance of it.
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- The project is constrained also by the Internet connection. Since it is supposed to be a web application, it is crucial that there is stable Internet connection for the application to function. The internet is needed mainly because the data should be fetched from the database over the Internet. It is also needed for the reCaptcha module and Google Map. If the patient wants to contact the doctor through the application, in order for that email to be sent the Internet connection should be available.
- In order for Google Map to be available at any time, the Google Satellite should be available all the time too.

## **2.5 Dependencies**

- User Input and Participation: Active user engagement is crucial for the platform's success, requiring users to create posts, join activities, and contribute to discussions.
- User-generated Content Quality: Maintaining high-quality and relevant user-generated content may require implementing moderation tools and guidelines.
- Community Building: The platform should include features that facilitate community building, social interactions, and networking capabilities.
- User Feedback and Iterative Development: Incorporating user feedback and continuously improving the platform based on user input is essential.
- Privacy and Data Protection: Requirements must address user privacy concerns and comply with data protection regulations.
- User Education and Support: Providing user documentation, tutorials, and support channels helps users effectively utilize the platform.
- Collaborative Partnerships: Partnerships with event organizers and activity providers may be required to expand the platform's offerings.
- Scalability and Performance: The platform should be designed to handle increased user loads without compromising performance.
- User Trust and Safety: Implementing mechanisms to verify organizers, promoting transparency, and addressing abusive behavior is crucial.
- User Experience (UX): Prioritizing a seamless and intuitive user experience through responsive design and efficient functionalities.

## **3. Requirements**

### **3.1 Functional Requirements**

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<b>Req#</b>	<b>Requirement</b>	<b>Comments</b>	<b>Priorit y</b>	<b>Date</b>	<b>Reviewed/ Approved</b>

### HobbyTales Documentation

<i>FR_01</i>	<i>The software should have different views for different user levels.</i>	<i>The view for patient, receptionist and doctor will be different.</i>	2	27/03/2018	<i>Kejda Balla/ Ilvana Dollaroviq</i>
<i>FR_02</i>	<i>A reCaptcha should be used for security issues while trying to log in.</i>	<i>To verify that you are not a robot, you should fill the reCaptcha.</i>	1	27/03/2018	<i>Sara Qirko/ Ariola Lami</i>
<i>FR_03</i>	<i>The user accounts have to be secured by passwords.</i>	<i>Ethics will be maintained by hashing the passwords before saving them in database.</i>	1	27/03/2018	<i>Ariola Lami/ Kejda Balla</i>
<i>FR_04</i>	<i>After the user has taken the password he/she can edit it, but he/she can't edit the username.</i>	<i>Editing usernames is not available since it is decided that the format that will be used will be the same for everybody.</i>	1	28/03/2018	<i>Sara Qirko/ Ilvana Dollaroviq</i>
<i>FR_05</i>	<i>The receptionist should be able to add a new patient.</i>	<i>The receptionist is the only user that is responsible for adding a new patient. He/she can fill a form or can import a file if that person already has a medical record file.</i>	1	27/03/2018	<i>Ilvana Dollaroviq/ Ariola Lami</i>
<i>FR_06</i>	<i>The information entered by the receptionist while creating or changing</i>	<i>It is important that all the information entered is accurate.</i>	2	28/03/2018	<i>Kejda Balla/ Sara Qirko</i>
	<i>information about a specific user should be first validated.</i>				

**HobbyTales Documentation**

<i>FR_07</i>	<i>The receptionist should be able to edit the personal information of a patient.</i>	<i>The receptionist is the only responsible user for editing the information of a patient.</i>	1	27/03/2018	<i>Ariola Lami/ Ilvana Dollaroviq</i>
<i>FR_08</i>	<i>The receptionist should be able to delete an existing patient.</i>	<i>The receptionist is the only responsible user for deleting an existing patient.</i>	1	27/03/2018	<i>Sara Qirko/ Kejda Balla</i>
<i>FR_09</i>	<i>The receptionist should be able to view the full profile of a patient.</i>	<i>In order to verify things when needed or to make the necessary updates, the receptionist should be able to view the current information of the patient.</i>	2	27/03/2018	<i>Ilvana Dollaroviq/ Sara Qirko</i>
<i>FR_10</i>	<i>The receptionist should be able to export the medical file of a patient. The system should be able to generate an XML file.</i>	<i>The receptionist is the only user responsible for exporting the medical file of a patient, in order to send it to another polyclinic or hospital when needed.</i>	2	27/03/2018	<i>Sara Qirko/ Ariola Lami</i>
<i>FR_11</i>	<i>The receptionist should be able to view all the patients of that polyclinic in a list.</i>	<i>All the patients of the polyclinic can be listed in order for the receptionist to see them.</i>	1	27/03/2018	<i>Kejda Balla/ Ilvana Dollaroviq</i>
<i>FR_12</i>	<i>The receptionist should be able to search for a specific patient.</i>	<i>The polyclinic will have many patients, so it would be efficient to have a search tool.</i>	1	27/03/2018	<i>Ariola Lami/ Kejda Balla</i>

**HobbyTales Documentation**

<i>FR_1 3</i>	<i>The receptionist should be able to add a new doctor.</i>	<i>The receptionist is the only user that is responsible for adding a new doctor.</i>	1	27/03/2018	<i>Ilvana Dollaroviq/ Ariola Lami</i>
<i>FR_1 4</i>	<i>The receptionist should be able to edit the personal information of a doctor.</i>	<i>The receptionist is the only responsible user for editing the information of a doctor.</i>	1	27/03/2018	<i>Ariola Lami/ Ilvana Dollaroviq</i>
<i>FR_1 5</i>	<i>The receptionist should be able to delete an existing doctor.</i>	<i>The receptionist is the only responsible user for deleting an existing doctor.</i>	1	27/03/2018	<i>Sara Qirko/ Kejda Balla</i>
<i>FR_1 6</i>	<i>The receptionist should be able to view the full profile of a doctor.</i>	<i>In order to verify things when needed or to make the necessary updates, the receptionist should be able to view the current information of the doctor.</i>	2	27/03/2018	<i>Kejda Balla/ Sara Qirko</i>
<i>FR_1 7</i>	<i>The receptionist should be able to view all the doctors of that polyclinic in a list.</i>	<i>All the doctors of the polyclinic can be listed in order for the receptionist to see them.</i>	1	27/03/2018	<i>Kejda Balla/ Ilvana Dollaroviq</i>
<i>FR_1 8</i>	<i>The receptionist should be able to search for a specific doctor.</i>	<i>It is supposed that the polyclinic will have many doctors therefore it would be efficient to have a search possibility.</i>	1	27/03/2018	<i>Ariola Lami/ Kejda Balla</i>

**HobbyTales Documentation**

<i>FR_1 9</i>	<i>The receptionist should be able to allow the doctor to fill the form for the current examination.</i>	<i>The receptionist is the user that correlates the relationship between the doctor and the user. He/she is the one</i>	<i>1</i>	<i>27/03/2018</i>	<i>Sara Qirko/ Ariola Lami</i>
		<i>that should give permission to the doctor to create a new record examination for the patient.</i>			
<i>FR_2 0</i>	<i>The doctor should be able to view all his patients.</i>	<i>The doctor needs to have a list of his patients.</i>	<i>1</i>	<i>28/03/2018</i>	<i>Ilvana Dollaroviq/ Sara Qirko</i>
<i>FR_2 1</i>	<i>The doctor should be able to view or even download the full profile of his patients.</i>	<i>In order to verify things when needed, the doctor should be able to view the current information of the patient.</i>	<i>1</i>	<i>28/03/2018</i>	<i>Sara Qirko/ Kejda Balla</i>
<i>FR_2 2</i>	<i>The doctor should be able to view all the patients that are waiting to be examined.</i>	<i>The doctor needs to have a list of the patients that are waiting to be examined.</i>	<i>1</i>	<i>28/03/2018</i>	<i>Kejda Balla/ Ariola Lami</i>
<i>FR_2 3</i>	<i>The doctor should be able to fill a form while examining a patient and save that new record.</i>	<i>The doctor should create a new record in his patient's file every time he examines him/her. However, this has to be allowed by the receptionist first.</i>	<i>1</i>	<i>28/03/2018</i>	<i>Ariola Lami/ Ilvana Dollaroviq</i>

**HobbyTales Documentation**

<i>FR_2 4</i>	<i>The doctor who is the director of the polyclinic should be able to view statistics.</i>	<i>The director of the polyclinic should be able to view monthly statistics generated by the system, in order to analyze the situation and to make the necessary decisions.</i>	1	15/05/2018	<i>Sara Qirko/ Ivana Dollaroviq</i>
<i>FR_2 5</i>	<i>The patient should be able to view his personal information and medical visit records.</i>	<i>The system should be transparent and the patient can see everything that the doctor writes for him.</i>	1	29/03/2018	<i>Kejda Balla/ Ivana Dollaroviq</i>
<i>FR_2 6</i>	<i>The patient should be able to download a PDF file of his records.</i>	<i>The patient may want to have a hardcopy file of his records.</i>	2	29/03/2018	<i>Ivana Dollaroviq/ Ariola Lami</i>
<i>FR_2 7</i>	<i>The patient should be able to contact the doctor.</i>	<i>An email will be sent to his doctor.</i>	1	19/03/2018	<i>Sara Qirko/ Kejda Balla</i>
<i>FR_2 8</i>	<i>A patient cannot see the profiles of other doctors of the polyclinic.</i>	<i>A patient has only to do with his family's doctor.</i>	1	29/03/2018	<i>Ariola Lami/ Sara Qirko</i>
<i>FR_2 9</i>	<i>A patient can leave a feedback for the service.</i>	<i>A patient should be able to rate and comment the service offered in the polyclinic.</i>	2	15/05/2018	<i>Sara Qirko/ Ivana Dollaroviq</i>
<i>FR_3 0</i>	<i>Each user should be able to look at the general information of the polyclinic.</i>	<i>All users can see the general information of the polyclinic.</i>	3	27/03/2018	<i>Kejda Balla/ Ivana Dollaroviq</i>

<i>FR_3 1</i>	<i>The web application has to be responsive.</i>	<i>The users should be able to access this web application from many devices.</i>	<i>3</i>	<i>31/03/2018</i>	<i>Sara Qirko/ Ariola Lami</i>
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***Table 1. Functional Requirements***

### ***3.2 Non-Functional Requirements***

#### ***3.2.1 Product Requirements***

- Performance: The platform should deliver fast and responsive behavior, enabling users to quickly browse event posts, join activities, and participate in chats.
- Reliability: The platform must operate consistently and minimize system failures, ensuring uninterrupted access to event posts, join buttons, and chat spaces.
- Scalability: The platform should scale seamlessly to accommodate a growing user base and increasing event activities.
- Security: The platform must prioritize user data security, implementing secure communication and access control using AWS authentication services.
- Compatibility: The platform should be compatible with various devices, browsers, and operating systems, ensuring a consistent user experience.
- Accessibility: The platform should adhere to accessibility standards, providing inclusive features and compatibility with assistive technologies.
- Interoperability: The platform should integrate with external systems and services using AWS APIs, such as mapping APIs for event locations or messaging APIs for chat functionality.
- Error Handling and Reporting: The platform should handle errors gracefully and provide meaningful error messages, with logging and reporting capabilities for troubleshooting.
- Data Backup and Recovery: The platform should implement regular data backups and a reliable recovery process using AWS storage services to prevent data loss.
- Compliance and Regulations: The platform must comply with data protection and privacy regulations, with AWS services assisting in ensuring secure data handling and user consent management.

By meeting these requirements and leveraging AWS services for authentication, data storage, and compliance, the social media platform can provide a performant, secure, and scalable solution for users to post events, join activities, and engage in chat spaces.

##### ***3.2.1.1 User Interface Requirements***

The user interface for the web applications should be compatible to any browser in order for the user to access it from Desktop or Mobile.

In addition to functions required, we are going to describe the characteristics of each interface which are supported from the sketches attached at the Adobe XD.

- Event Creation Interface: This interface allows users to create event-based posts by providing relevant details such as activity type, location, date, time, and description. The user interacts with a user-friendly and intuitive UI to input and format the event information, including adding images or multimedia if supported.
- Joining Interface: Users can join activities by clicking on a "Join" button associated with each event post. The interface should clearly display the join option and provide a seamless user experience, confirming the user's participation in the chosen activity.
- Chat Interface: Upon joining an activity, users gain access to a chat space where they can interact with other participants. The chat interface should facilitate real-time messaging, displaying messages in an organized and readable format. Users can send messages, view previous conversations, and potentially utilize features like emoji reactions or file sharing.
- User Profile Interface: Users have their profile pages, accessible through a user-friendly UI. The profile interface enables users to view and update their personal information, manage privacy settings, and customize their profile display. It may include options to upload a profile picture, provide a bio, or share links to external social media profiles.
- Event Feed Interface: The main feed interface presents a stream of event-based posts, allowing users to scroll through and explore different activities. The UI should showcase event titles, summaries, and relevant information in a visually appealing and easily scannable manner. Users can interact with the posts by liking, commenting, or saving them for future reference.
- Notifications Interface: The platform may include a notifications interface to inform users about relevant updates, such as new event posts, activity updates, or chat notifications. The UI should provide clear and unobtrusive notifications, allowing users to easily access and manage them.
- Search and Filtering Interface: The platform should provide search and filtering functionalities, enabling users to discover specific activities based on criteria like location, date, activity type, or user preferences. The UI should offer intuitive search fields, dropdown menus, and checkboxes for filtering options, providing a seamless search experience.
- Settings Interface: Users can access their account settings through a dedicated interface. The UI should offer options to manage account preferences, privacy settings, notification preferences, and other configurable features.
- Login Interface: The login interface enables users to securely access their accounts. Users enter their credentials, such as username/email and password, through a user-friendly UI. The interface should provide clear input fields, password masking for security, and options for password recovery or account creation for new users.

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- Logout Interface: The logout interface allows users to securely log out of their accounts. Users can access the logout option from a user-friendly UI, typically located within the user profile or

account settings. Upon clicking the logout option, the user's session is terminated, and they are redirected to the login page or a designated landing page.

### **3.2.1.2 Learnability**

1. Learnability: The system is easy to learn and navigate.
  - Comprehensive user documentation and context-sensitive help explain common tasks.
  - The user interface is intuitive and user-friendly.
2. Efficiency: The system promotes efficient user interactions.
  - Clear and consistent navigation enables easy movement between features.
  - Frequently used actions are readily accessible within the UI.
  - Workflows are streamlined to minimize unnecessary steps.
  - Error messages provide clear guidance for issue resolution.
  - Confirmation messages and feedback inform users of action success and next steps.
  - Visual indicators keep users informed of task progress.

These usability requirements prioritize ease of learning, efficient usage, and clear messaging to enhance the overall user experience and user satisfaction.

### **3.2.1.3 Accessibility**

- Each user is provided with his/her username and password at the time they are registered at the system.
- The user than can access the system. .
- The registered users can access the system at any time and at any place.

### **3.2.1.4 Efficiency**

- Easy Event Creation: Users can quickly create event posts with relevant details, making it effortless to organize activities aligned with their hobbies.
- Seamless Joining: Users can join activities with a single click, eliminating unnecessary steps and simplifying the process. This ensures a smooth and efficient experience for users to express their interest and participation.
- Convenient Chat Integration: The app integrates chat spaces where participants can interact and coordinate in real-time. This facilitates efficient communication and collaboration among users, enhancing engagement and fostering connections.

- Time Management: The app includes specific time information in event posts, enabling users to plan their schedules effectively. This ensures users are aware of when and where to meet for the activity, optimizing their time and participation.

### **3.2.1.5 Memorability**

- The system is intuitive hence, it is not a problem if you ‘vaguely remember’ how to use it.
- If the users return to the design after a period of not using it they will be able to re-establish proficiency very quickly.
- The user interfaces are designed to be easy understandable by the users.

### **3.2.1.6 Errors**

The error rate is lower than the current error rate.

- Each time sensitive data is entered in the system double check procedure is applied where the user confirms the entered data.
- If an error occurs it can be edited and corrected immediately.

### **3.2.1.7 Satisfaction**

- The system is user-friendly and it is very easy to use.

### **3.2.1.8 Capacity**

The program caters to a diverse range of users, including event organizers, activity participants, social connectors, and adventure seekers. It offers a versatile and inclusive platform for individuals with different interests, providing them with opportunities to organize and join various activities, connect with like-minded people, and explore new outdoor experiences.

Every user will use the same database, that is a non-relationship database, hosted on web, the same as the backend and the frontend of the application, so a large number of users and requests at the same time will cause no problems, further more if the users numbers and the capacity needed for the whole application increases, it can very easily be scaled up or down as needed.

## **3.2.2 Organizational Requirements**

### **3.2.2.1 Availability**

- 1) Hours of Operation:
  - The application will be available 24/7, allowing users to access and interact with it at any time.
- 2) Level of Availability:
  - The application should achieve a minimum of 99.9% uptime on the AWS cloud platform, measured on a monthly basis.

- Downtime should be limited to a maximum of 0.1% of the total operational hours in a given month.
- 3) Coverage for Geographic Areas:
  - The application should be accessible to users globally, ensuring that individuals from various regions can join and participate in activities.
- 4) Impact of Downtime:
  - Downtime should have minimal impact on users and their ability to organize or join activities.
  - AWS's robust infrastructure and failover mechanisms should be leveraged to minimize service interruptions and ensure data integrity.
- 5) Impact of Scheduled and Unscheduled Maintenance:
  - Scheduled maintenance should be carefully planned during off-peak hours to minimize disruption to users.
  - Communication procedures should be established to inform users in advance about maintenance activities, expected downtime duration, and updates on progress.
- 6) Reliability:
  - The application should demonstrate high reliability on the AWS cloud platform, with a focus on minimizing failures and maximizing Mean Time Between Failures (MTBF).
  - Continuous monitoring, maintenance, and improvement efforts should be undertaken to ensure the stability and reliability of the application.

By incorporating these specific and measurable requirements into our application's development and deployment on the AWS cloud platform, we can ensure that our hobbies social media platform operates seamlessly, provides a reliable user experience, and minimizes any disruptions or negative impacts on users' ability to engage in activities and connect with others.

### **3.2.2.2 Latency**

The latency of the web application will depend on:

- Internet connection strength.
- The efficiency of the algorithms used to fetch data from the database.

### **3.2.2.3 Monitoring**

We have chosen AWS CloudWatch for monitoring our application. It collects and tracks metrics, logs, and events, providing real-time insights into performance and health. With customizable dashboards and automated alerts, we can proactively monitor and troubleshoot issues, ensuring optimal operation and a seamless user experience.

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### **3.2.2.4 Maintenance**

- The system will be developed using cloud technologies, specifically AWS. Therefore, this platforms will be used to maintain the application.
- The application will be developed in modules so it can be easily extended. New modules can be easily added to the application anytime.
- In case of any software update or bug correction, the users will be informed.

### **3.2.2.5 Operations**

Some of the operations that will be provided to the users are:

- 1) User Registration and Login: Users can easily sign up for an account by registering with their email or social media accounts. Once registered, they can securely log in to access the application's features and personalize their profile.
- 2) Event Creation: Users can create event posts, providing details about the activity they are organizing. This includes specifying the type of activity, location, and time.
- 3) Joining Activities: Users can browse through event posts created by others and join activities of interest with a simple click. This expresses their intention to participate and become part of the activity.
- 4) Chat Spaces: For each joined activity, users have the option to enter dedicated chat spaces. These spaces facilitate real-time communication and coordination among participants, ensuring seamless interaction.
- 5) Scheduled Activity Participation: The application includes a time and date for each activity, allowing users to plan their schedules accordingly. Users are expected to meet and actively participate in the specific outdoor activity they have joined at the designated time and location.

Throughout the process, the application prioritizes availability and reliability. Leveraging the power of AWS cloud services, it aims to deliver uninterrupted access and robust performance, ensuring a seamless experience for users to connect, organize, and participate in various activities aligned with their hobbies and interests.

### **3.2.2.6 Standards Compliance**

**Data Privacy:** The application complies with data privacy regulations like GDPR, ensuring secure handling of user data.

**User Authentication:** Industry-standard authentication protocols are implemented for secure login and user identification.

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**Web Standards and Accessibility:** The application adheres to web standards and accessibility guidelines for compatibility and inclusivity.

**API Standards:** APIs follow widely accepted standards like REST or GraphQL for consistent communication.

**Security Standards:** Best practices are followed, including encryption, secure transmission, and protection against vulnerabilities.

**Social Media Guidelines:** Compliance with social media platform guidelines is maintained for integration and API usage.

### **3.2.2.7 Portability**

- The system will be web-based; therefore, it will operate the same regardless of the operating system.
- All you need is a computer or mobile phone and an Internet connection.

### **3.2.3 External Requirements**

#### **3.2.3.1 Security**

The information kept in the system's database is considered to be sensitive information. Therefore, we should make sure that the security of our system is high. According to the law No.9887, dated 10.03.2008, as amended with law No.48/2012, "On the Protection of Personal Data", the personal information of each user should be private and possible to be accessed only by the specified actors. Therefore, this information is secured with hashed passwords. Moreover, the doctors and the receptionist have to be careful with the usage of the personal information of the patients.

#### **3.2.3.2 Protection**

To protect the system from malicious or accidental access, modification, disclosure, destruction, or misuse we will take the following precautions:

- Encrypt the most sensitive information such as passwords using hashing method to protect privacy.
- We will keep track of the activity of each user, such that in case of a problem the user will be held responsible.
- The receptionist is responsible for the personal data authenticity of the user he/she enters; hence the system is not responsible.
- The system will validate each data for special characters and other specific conditions before inserting or updating in the database.
- To make sure that some action is intentional and not accidental, most of the actions of the users are protected by a pop up window to confirm that action.

#### **3.2.3.3 Authorization and Authentication**

The application leverages AWS Amplify and Amazon Cognito to implement robust authorization and authentication capabilities. These services provide secure user management and access control, ensuring the privacy and protection of user accounts and data.

- User Registration and Login: With Amazon Cognito, users can easily register for an account using email or social media credentials. The authentication process verifies user identities, protecting against unauthorized access.

- Identity Management: Amazon Cognito manages user identities, including user pools and identity pools, to securely store and authenticate user information. This ensures proper user authorization for accessing application resources.
- User Authentication: AWS Amplify simplifies the integration of authentication mechanisms, allowing users to securely log in using various authentication methods like email, password, or social media login providers.
- Access Control: Using AWS Identity and Access Management (IAM) policies and Amazon Cognito user roles, the application can define fine-grained access controls, restricting certain functionalities or resources based on user roles and permissions.
- Multi-Factor Authentication (MFA): Amazon Cognito supports MFA, providing an additional layer of security for user accounts. Users can enable MFA to authenticate themselves using a second factor, such as SMS, email, or authenticator apps.

By leveraging AWS Amplify and Amazon Cognito, our application ensures secure user authentication, identity management, and access control, safeguarding user accounts and providing a trusted and reliable authentication experience.

### **3.3 Domain Requirements**

- Domain Registration: The application's domain has been registered using AWS Route 53, ensuring a unique and recognizable web address.
- DNS Management: The DNS settings have been configured and are being managed effectively. Domain name resolution and DNS records are properly maintained.
- SSL Certificate: An SSL certificate has been obtained and installed, enabling secure HTTPS communication between the application and its users. This ensures the encryption of data transmitted for enhanced security.
- Subdomains: The application utilizes subdomains to effectively organize and structure different sections or services, providing a seamless navigation experience for users.
- Domain Alias: Domain aliases have been set up to redirect alternate domain names to the main application domain. This ensures consistent access and prevents confusion among users.

With these domain requirements successfully implemented using AWS Route 53 and associated technologies, our application provides a secure and user-friendly online presence with a registered domain, efficient DNS management, and organized subdomains for optimal functionality.

## **4. Software Design / Diagrams**

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### **4.1 Requirements Analysis**

#### **4.1.1 User Scenarios**

##### **4.1.1.1 User Scenarios List**

Nr	Name	Description
<b>US_0 1</b>	User logs in	Users log in using username and password
<b>US_0 2</b>	Change password	Users change their password
<b>US_0 3</b>	User signs up	When using the application for the first time the users firstly need to signup
<b>US_0 4</b>	View Profile	Users can view their profile
<b>US_0 5</b>	Update User	The users can update their profile
<b>US_0 6</b>	Post events	Users can make posts
<b>US_0 7</b>	Update events	Users can update their posts
<b>US_0 8</b>	Search Users/Posts	Users can search other users and posts
<b>US_0 9</b>	Search by tags	Users can search by tags
<b>US_1 0</b>	Users join an event	Users can join different type of events
<b>US_1 1</b>	Chat creation	Every post will have a chat room created with its creation
<b>US_1 2</b>	Chatting	Users joined in the same event can chat with each other
<b>US_1 3</b>	Comment on posts	Users can comment in different posts
<b>US_1 4</b>	Like a post	Users can like different posts
<b>US_1 5</b>	Post completion	This is an automatic action where the post is updated

<b>US_1 6</b>	Follow users	Users can follow other users
<b>US_1 7</b>	User logs out	Users log out from their accounts

**Table 2. User scenarios list**

#### 4.1.1.2 User Scenarios Extended

1. **US\_01** – User logs in
  - a. User is presented to the log in page
  - b. User enters his username and password
  - c. User presses the log in button
  - d. AWS amplify makes sure that the login data is correct
  - e. If data is correct the user is redirected to the main page
  - f. If data is not correct an error message will be shown and user repeats the process from step b.
2. **US\_02** – Change password
  - a. User logs in following the steps in **US\_01**.
  - b. User chooses the menu “Change Password” in their profile settings
  - c. User types his old password and his new password (2 times)
  - d. User presses the button “Save Changes”
  - e. If the old password is correct and if the new password is the same in both fields the user is alerted: “Password was changed successfully!”
  - f. In case the old password is wrong or the new password is not the same in both fields then user is alerted: “Password was not changed. Please try again.”
3. **US\_03** User signs up
 

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  - a. Users presses the Signup option and is redirected at the signup page
  - b. The users add an email, username and password
  - c. After pressing signup, the users receive a code in their email

- d. In the signup page the users write the authentication code
- e. If the authentication code is not correct the user is asked to try again and receives an error
- f. After confirming the user's data, the user is redirected to the login page

**4. US\_04 – View Profile**

- a. User logs in following the steps in **US\_01**
- b. Users can go to their profile
- c. There they can see their post and any data, like bio, profile picture, followers, the users following and also the users can see the posts (event) they have joined
- d. Viewing the joined posts section is only available when the users are in their own profile

**5. US\_05 – Update User**

- a. Users log in following the steps in **US\_01**
- b. In their profile page the users have a edit profile option
- c. When pressing the edit profile the users are introduced in a user friendly interface where they can edit the profile, being able to change the username, profile picture and the location (relevant when posting).
- d. Each of the field mentioned above have specific requirements that when not meet, are presented as errors to the user, with instructions on how can be filled correctly
- e. As part of the profile edit the users can remove followers for any personal reason

6. **US\_06** Post events
  - a. Users log in following the steps in **US\_01**
  - b. In the main page, in the bottom right corner the user is presented with a circular button with a “+” symbol
  - c. When pressed the users are presented with the Post interface
  - d. Here the user has a few fields, some mandatory and some not
  - e. The users add a title for the post, supposedly short and summarizing the kind of event they are organizing and to give a more detailed explanation for the event on question they can expand their idea, the organization and everything the users want to include in the bio section. The user has the option to include a picture in their post. Very important for completing a post is the number of users needed to join the event (or any other activity) and the time for which the user is presented with a friendly and different looking interface
  - f. The users can also add tags in their posts, the tags are predefined and include all the cities of Albania and a very large category of sports and other activities, the users can also create new adds that need to be in accordance to the safety of all the other users. This part is not mandatory since the users can explain in more detail the location and the nature of the event if they do not feel properly represented by the tags
  - g. After filling these fields the users can use the post option to post their event
  
7. **US\_07** – Update events
  - a. Users log in following the steps in **US\_01**
  - b. Users post following the steps in **US\_07**
  - c. By clicking the edit button the users are presented with the post edit interface where they can change the different parts of the post
  - d. After finishing the edit process by pushing the edit button the post is edited and if there are any error they are shown to the users with instructions on how to properly fix them and in the case of errors the post is not updated.
  
8. **US\_08** – Search Users/Posts
  - a. Users log in following the steps in **US\_01**

- b. On the top of the application is a search bar where users can search for different users or post titles, the possible search results are shown as the user's type, for the users searched their username is needed meanwhile for the post the title is needed
9. **US\_09 – Search by tags**
- a. Users log in following the steps in **US\_01**
  - b. Underneath the search in **US\_08** the users can search by tags alone
  - c. This kind of search is when the users want to explore different type of event, here they can choose a city tag, an event tag or a combination of both
10. **US\_10 Users join an event**
- a. Users log in following the steps in **US\_01**
  - b. In the main page the users can see all post from the other users and if one of these events interests the user they can press the join button in this post
  - c. By pressing this button, the users agree and express desire to be part of a specific event, this action increases the joined user's section in the post which will allow only a specific number of users to join as specified by the user who has made the post
  - d. After pressing the join button and essentially being part of this event another button appears to the users (only after joining), that is the chat button.
11. **US\_11 – Chat creation**
- a. After creating a post following the steps in **US\_06**
  - b. After an event is posted, for this event a chat room will be created with firstly only the creator as a member and then with other users once they join
12. **US\_12 – Chatting**
- a. User joins a post following the steps in **US\_10**
  - b. After the appearance of the chat room the users by pressing its button join the chat room, here they can chat for specifics of the event or to know the other users
13. **US\_13 – Comment on posts**

- a. Users log in following the steps in **US\_01**
- b. In the main menu, users can see the different post and at the bottom of the post the user can add a comment
- c. Here the users type and after finishing the comment is posted by pressing the comment button
- d. In the post after commenting the option changes from ‘Comment’ if there are no comments to ‘View Comments’, that when pressed the users can see all comments and again have the option to comment themselves.

**14. US\_14 – Like a post**

- a. Users log in following the steps in **US\_01**
- b. Users can like different by pressing a heart shaped icon in the bottom of the post
- c. This is used as a way of showing appreciation or just supporting different events
- d. Another use case is that after the event is finished the users that has made the post can update it with pictures from the event day, and here different users can like

**15. US\_15 – Post completion**

- a. After the specified date at any post passes, the post is automatically updated
- b. The post color change giving it a grayish color and the join button changes to ‘Event full’
- c. Users can still comment, like and if they had previously joined can still access the chat room
- d. This part being still active after the event is finished, is to encourage the users to still support each other and in the chat room they can discuss the event and keep building friendships and continue to know each other.

**16. US\_16 – Follow users**

- a. Users can search another user following the steps in **US\_08**
- b. By visiting other users’ profile, the users can notice a follow button
- c. BY pressing this button, the users start following different users.

**17. US\_17 – User logs out**

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- a. User logs in following the steps in **US\_01**
- b. By visiting their profile, the user can find the log out button
- c. By pressing this button, the user is logged out and is redirected to the main page and bearer and jwt token are deleted.

#### **4.1.2 User Cases**

Name	User logs in
Summary	User enters personal information to access his account.
Actor	Users
Description	User gains access on his account after typing his correct username and password.
Precondition	User must have an active before logging in.
Alternatives	The user can access only one account at a time.
Post Condition	User is logged on his account.

#### ***UC\_01 – US\_01 - User logs in***

Name	Change password
Summary	User goes to the corresponding page to change his password.
Actor	Users
Description	User types the old password and the new one in order to make the change.

Precondition	The user should be logged in. The old password should be typed correctly and both fields with the new password should match. Also the new password should be different from the old one and it should follow the validation rules.
Alternatives	If the fields are not filled correctly (validation rules not passed successfully), then information cannot be saved. The user is allowed to try again.
Post Condition	After pressing the “Change Password” button, the old password is replaced with the new one.

***UC\_02 – US\_02 - Change password***

Name	User signs up
Summary	The users register their accounts.
Actor	Users
Description	In the log in page users click on the register button, and here they create an account to use the application
Precondition	The users should use account that have not been registered before, the username should not be taken and the password must pass the validation.
Alternatives	After entering the data the users should tap the create account button that will send them an email and take them in a new interface where they in order to activate the said account should type the received code, if not done in a certain amount of time the account activation will not be done ( <u>the account is created and the data cannot be used in order to create another account, unless activated</u> )
Post Condition	A new user is added on the database

***UC\_03 – User signs up***

Name	View Profile
Summary	The user goes to their profile page.
Actor	Users
Description	After tapping the profile page icon the user is taken at their profile page interface where they are presented with different options (explained in detail later) and also the user is presented with data available to the other users (a user can visit other users pages) but also to data only available to the users own profile, an example is the “joined post” section.
Precondition	To partake this action the user should have created an account and also they should be logged in. Users also should have internet access.
Alternatives	The alternative available is to tap the profile icon (or the profile page of other users, that can be found at the top of the post or searched), or not to tap this icon and in turn not visit the profile page interface.
Post Condition	The user views their profile, is taken at the profile page interface)

***UC\_04 – US\_04 – View Profile***

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Name	Update User
Summary	The users update their data.

Actor	User
Description	By choosing the “update profile” button the user is transferred to the Update interface (also to note is the fact that this is a single page application, so the users are not transferred on different tabs or pages). Here the users can update data like bio, location, profile picture ...
Precondition	The user firstly should be logged in. Any data changes must pass the validation (should be in a predefined, certain format).
Alternatives	If the users are sure they should press Save changes to continue saving, if not then they should press cancel and go back to the profile page.
Post Condition	The user updates data shown in their profile page.

***UC\_05 –US\_05 – Update User***

Name	Post events
Summary	The user will create a post like event open invitation.
Actor	Users
Description	In the bottom right corner of the application the users can see a circular button with a plus “+” icon in the center and by pressing this button the users are introduced to the post interface.  Here the users can create their post and have a variety of fields, same required some not. Firstly the users can add a title to their post, descriptions, photos, the required number of people to join and the time of the event. Not required but very highly recommended to be used are the location and the event type tags (each post has tags).

	This creation of post about certain activities is the main idea of this application, since we aim for users to find and join these events both virtually and in person, being well specified and described by the event creator is a very important step aimed at attracting the right users and persons with each other.
Precondition	To access this service the users should be logged in.
Alternatives	After finishing filling the required fields and passing the validation for them the user can tap at the “post” button that will create the post for all the other users to see or press “cancel” that will discard this post creation.
Post Condition	The user will create a post.

***UC\_06 – US\_06 – Post events***

Name	Update events
Summary	The users update their posts.
Actor	Users (The user that created the post)
Description	The users can update the edits, they can edit all of the fields to their judgment and after passing the validation the post can be updated.
Precondition	To access this list you should be logged in.
Alternatives	The users can tap on the “save changes” button and update the post or they can press the “cancel” button to discharge the edits.
Post Condition	The users will edit their posts.

***UC\_07 – US\_07 – Update events***

Name	Search Users/Posts
Summary	Search a specific user or post.
Actor	Users
Description	<p>In the top of the application the users can see a search icon that when tapped will open a search space (the small icon will be turned in a field where data can be entered).</p> <p>Here the users can type the username or post titles and as they type data (a dropping list will be shown with the searched data).</p> <p>After finding the requested data the users can click the username or title searched and this will transferee them to the user profile or in the case of a post title to the post in the specific user profile.</p>
Precondition	You should be logged in.
Alternatives	Users can either type the name or the post tile. If there is data found, they are shown to the requesting user.
Post Condition	If results were found, a list with the specific users and posts with or very similar to the input data will be shown.

***UC\_08 – US\_08 – Search Users/Posts***

Name	Search by tags
Summary	Search for different tags available.
Actor	Users
Description	In the main page there is a search field, a different and always shown in a full text field, unlike the “Search user/post section”.

	<p>Here by either typing or by taping the list of tags presented the user can chose tags that describe the events types or the location, if posts are found with this specific tags they are shown to the users and they can browse and find events that are in line with their hobbies.</p> <p>The way this search unlike the previous one is build in this way is to encourage the users to primarily search for tags that would be of their interest, rather than users but also since a user can see a post they want to be part in a different time from the moment it was seen, in case they cant remember the title and search it directly, the users can also have this option the browse until they find the post in question and also stumble on other event that may be of interest to them, thus further integrating the user in the application.</p>
Precondition	You should be logged in.
Alternatives	Users can choose one or more tags. If there is data found, it will be shown.
Post Condition	If results were found, the requesting user will be transferred to a page with post matching the tags searched.

***UC\_09 – US\_09 – Search by tags***

Name	Users join an event
Summary	Users see a post that is interesting and want to become part, this is done by pressing the join button.
Actor	Users

Description	If the users either stumble or search for a specific event, they can be part by pressing the join button at the top right corner of the post.  By pressing this button the users can see a change in the post interface where a new button is presented to them (described later).  So the users become part of a certain event.
Precondition	You should be logged in.
Alternatives	If the receptionist is sure he/she should press YES to continue saving, if not then he/she should press NO and go back to the previous page. If when pressing YES, the validation of the fields is not successful, the receptionist is allowed to make the necessary changes.
Post Condition	Users becomes part of an event.

***UC\_10 – US\_10 – Users join an event***

Name	Chat creation
Summary	After the post creation a chat room is also created.
Actor	Users/Automatic
Description	After creating a post, a chat room is created for every single post. Since we encourage our users to not just simply go to an event “blindly”, we encourage them to get to know each other before and to also talk for more details regarding the event.
Precondition	The users should be logged in and create a post.
Alternatives	The users do not have alternatives for creating or <del>not the chat rooms for each post since it is an essential part of the application.</del>
Post Condition	A chat room is created for every post.

***UC\_11 – US\_11 – Chat creation***

Name	Chatting
Summary	Users can chat with each other.
Actor	Users
Description	<p>The users can chat with each other, this by navigating to the chat interface.</p> <p>The purpose of the chatting and chat rooms is for the users to get to know each other better and help in the event organization.</p>
Precondition	You should be logged in, created or joined a post and have navigated to the chatting interface
Alternatives	If the users are sure of the message they want to send they should press send, if not then they should press the delete option in their keyboards
Post Condition	The users chat with each other.

***UC\_12 – US\_12 – Delete user***

Name	Comment on posts
Summary	Users comment on different posts.
Actor	Users
Description	<p>The users can comment in different posts. This option is so the users can express a opinion, suggestion, appreciation or anything in a post.</p> <p>These comments will be shown in the ‘Comments’ section of the posts with the commenters username.</p>

### ***HobbyTales Documentation***

Precondition	You should be logged in.
Alternatives	If the users are sure of the message they want to comment they should press the “comment” button, if not then they should press the delete option in their keyboards.
Post Condition	A comment is created at a post.

***UC\_13 – US\_13 – Comment on posts***

Name	Like a post
Summary	The user likes a post.
Actor	Users
Description	The users can add likes to a post. This feature is common across social medias and the users can view it as a way for showing support and appreciation for a post.
Precondition	Doctor should be logged in and like the post.
Alternatives	If the receptionist has not allowed the doctor to make any visits, that list will be empty. An informative message will be shown.
Post Condition	The user likes a post.

***UC\_14 – US\_14 - Like a post***

Name	Post completion
Summary	The post is completed.
Actor	Automatic

Description	<p>The users when creating a post have two required fields that should not be left empty, the event time and the number of users required to join them.</p> <p>When the event time passes or the number of users needed is reached the interface of the post changes, it takes a grayish color and the join button is changed to “completed”.</p> <p>If the post attracts more attention than predicted by the creator, they can edit the post and increase the number of users, that if the event time has not passed yet will change the post interface to the previous one and if the adobe conditions are met again the interface will change to the completed one.</p>
Precondition	The time of event should have passed or the number of requested users is fulfilled or both.
Alternatives	Since this action is automatic the users do not have alternatives.
Post Condition	The post is completed and its interface changes.

***UC\_15 – US\_15 - Post completion***

Name	Follow users
Summary	A user follows another user.
Actor	Users
Description	<p>One user can follow other users and be followed by them. This will make the posts of the followed user to show more often. After pressing the follow button the interface of the followed user and of the following one will change, the “follow” button will be transformed to unfollow, and the following and followers fields will change to each profile page accordingly.</p>

### ***HobbyTales Documentation***

Precondition	The users should be logged in.
Alternatives	After pressing the “follow” button in the user profile, the logged in user starts following the user in question, if they do not want to follow them any longer they can press the “unfollow” button.
Post Condition	A user follows another user.

***UC\_16 – US\_16 – Follow users***

Name	View profile
Summary	Each user can view his/her personal information.
Actor	Receptionist / Doctor / Patient
Description	<p>In case of a receptionist, he/she logs in and clicks on “My Profile”.</p> <p>In case of a doctor, he/she logs in and at the left panel of the main page is shown his personal information. He can also access it by clicking “Home” menu.</p> <p>In case of a patient, he/she logs in and clicks “My Profile”.</p>
Precondition	The user should be logged in.
Alternatives	Users can view their profile at any time.
Post Condition	The user views his personal information.

***UC\_17/a – US\_17– View profile***

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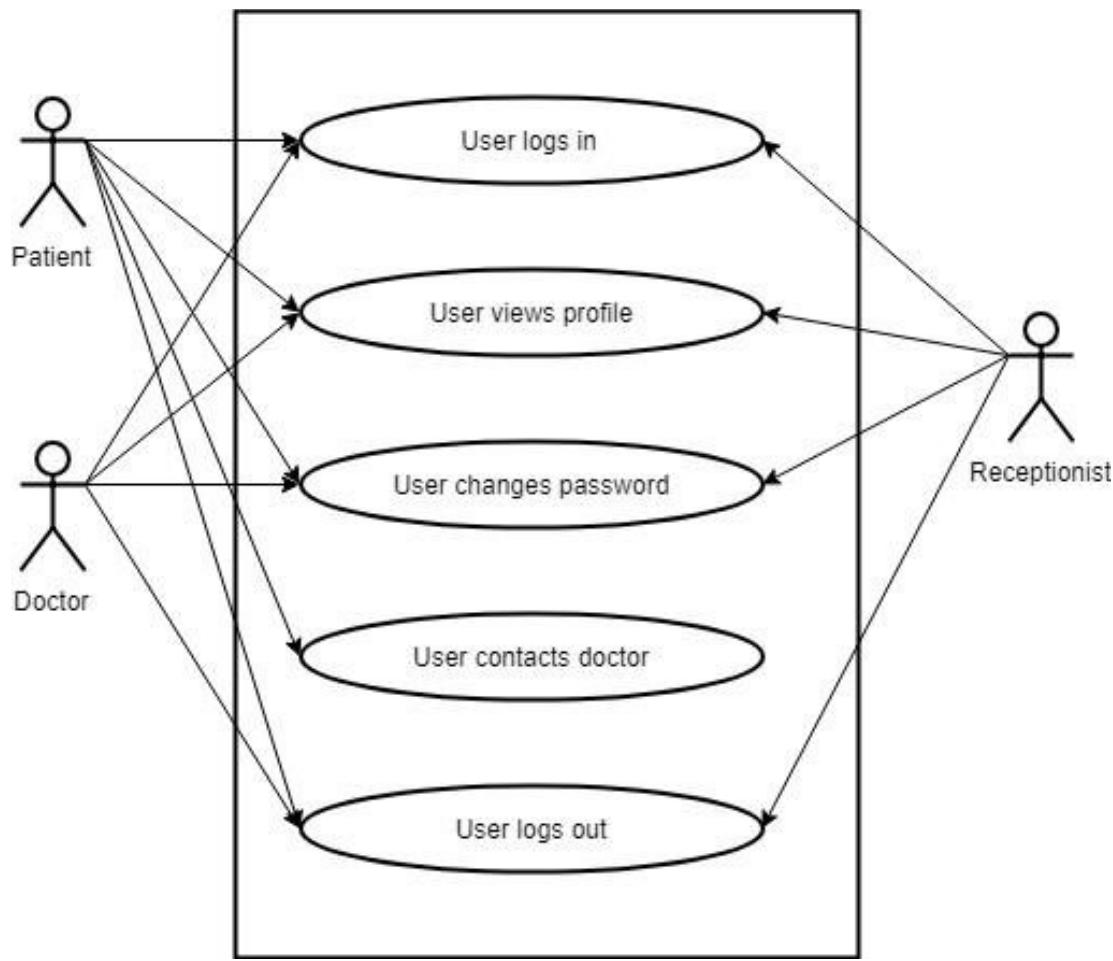
Name	User logs out
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Summary	User has finished his/her activity.
Actor	Users
Description	First the user logs in. Then they interact with the application and when finished they click the “Log Out” button.
Precondition	The user must first be logged in.
Alternatives	The user can log out at any time.
Post Condition	The user has logged out and is no longer using his/her account.

***UC\_17 – US\_17 – User logs out***

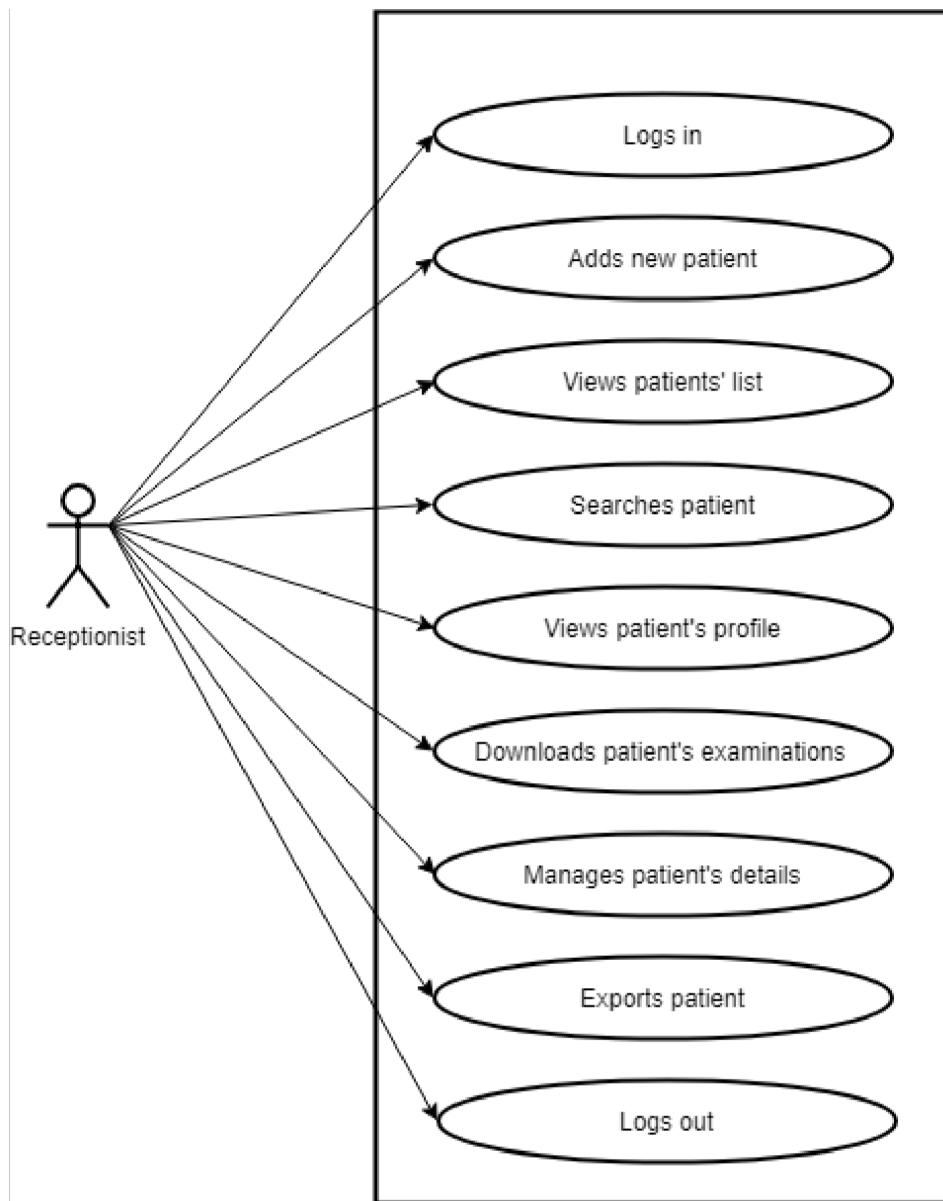
## **4.2 Behavioral Diagrams**

### **4.2.1 Use Case Diagrams**



***CD\_01 – UC\_01, UC\_02, UC\_17/a, UC\_19, UC\_23 – Basic Operations***

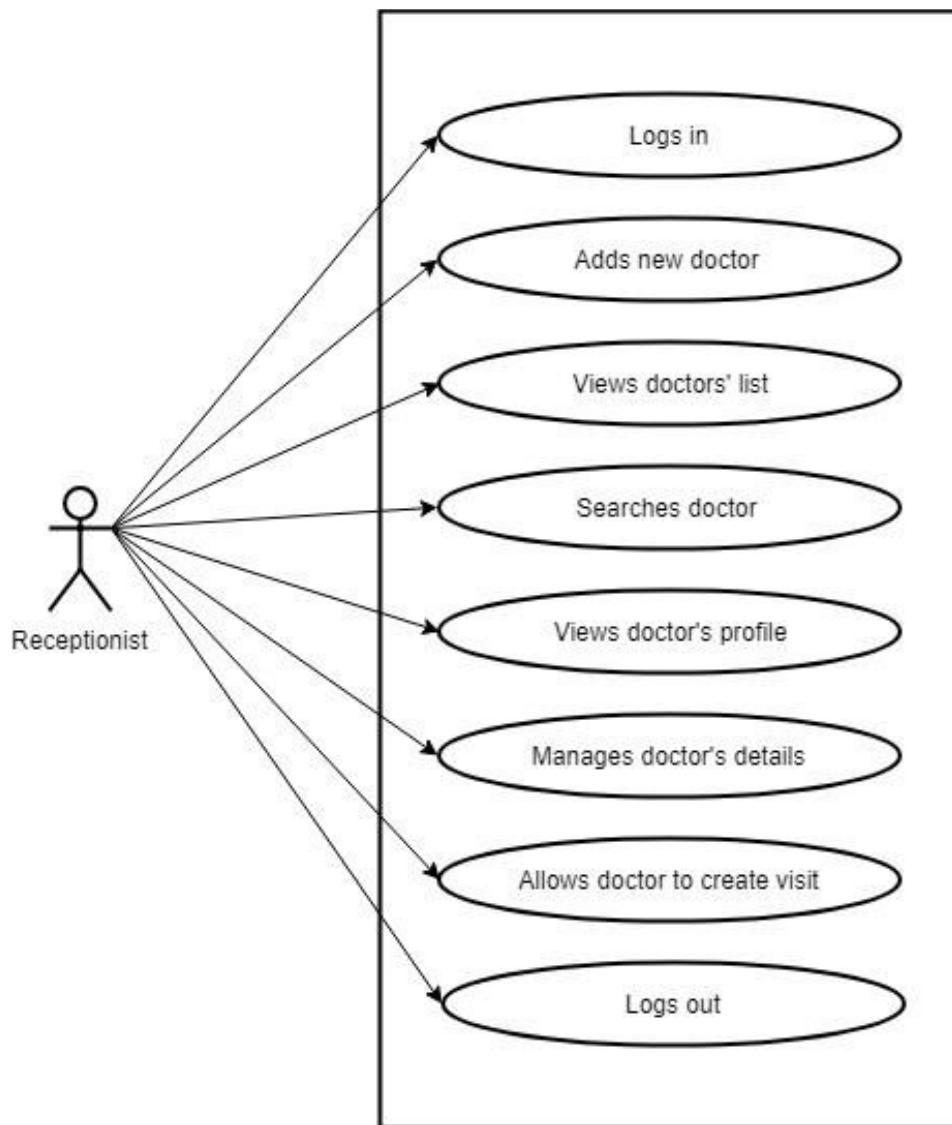
## HobbyTales Documentation



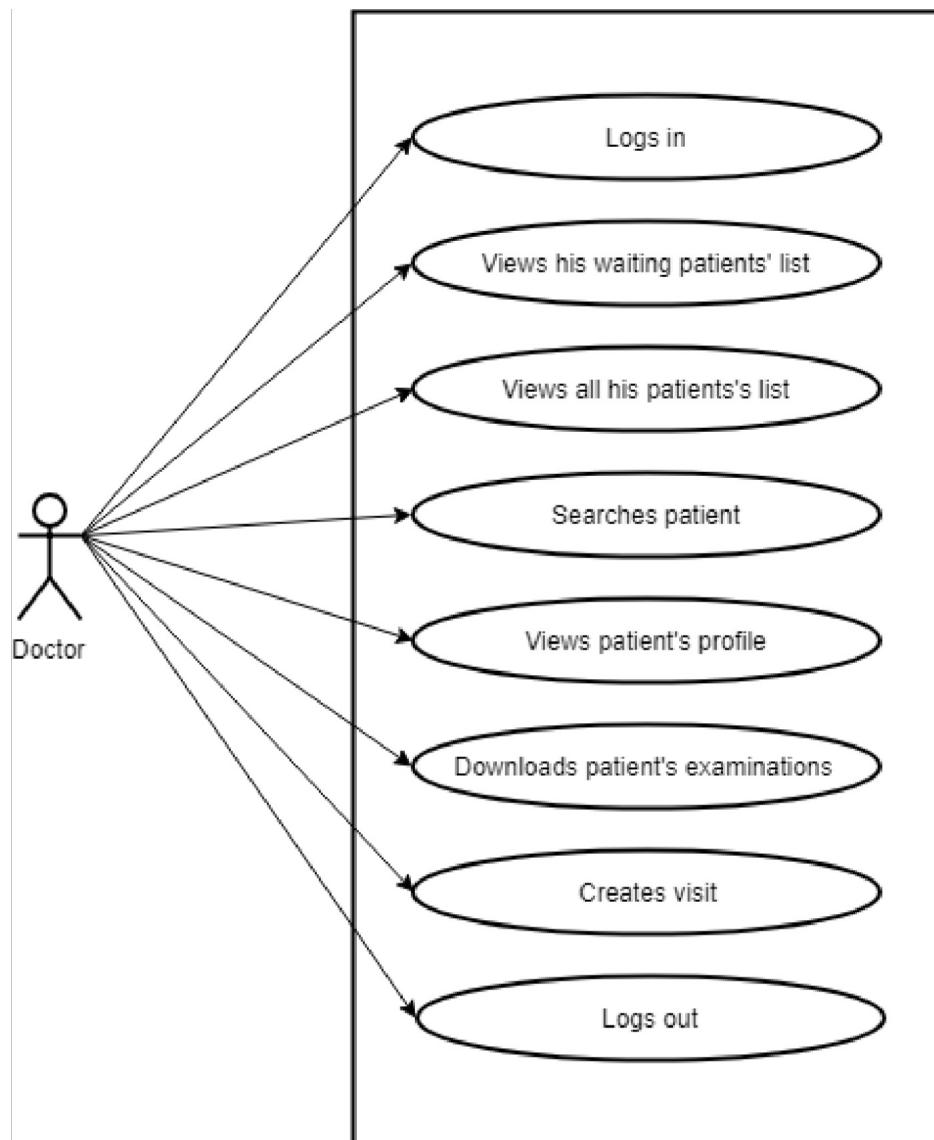
**CD\_02 – UC\_01, UC\_03, UC\_04, UC\_06, UC\_08, UC\_10, UC\_12, UC\_16, UC\_17b, UC\_18, UC\_20,  
UC\_23 – Relationship**

***between receptionist and patient***

## HobbyTales Documentation

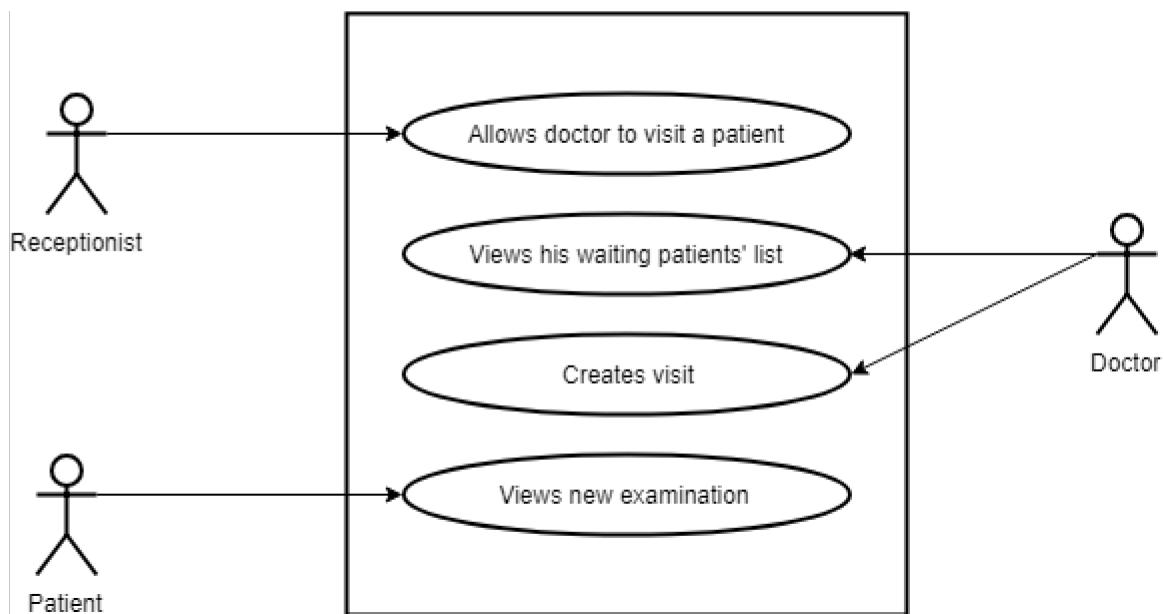


**CD\_03 – UC\_01, UC\_05, UC\_07, UC\_09, UC\_11, UC\_12, UC\_12, UC\_17b, UC\_23 – Relationship between receptionist and doctor**

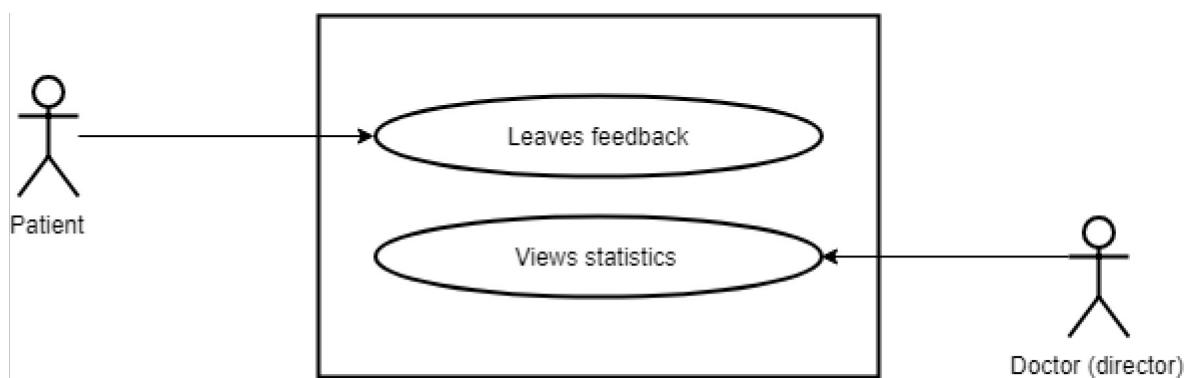


***CD\_04 – UC\_01, UC\_06, UC\_14, UC\_15, UC\_17b, UC\_18, UC\_20, UC\_23 – Relationship between doctor and patient***

### HobbyTales Documentation

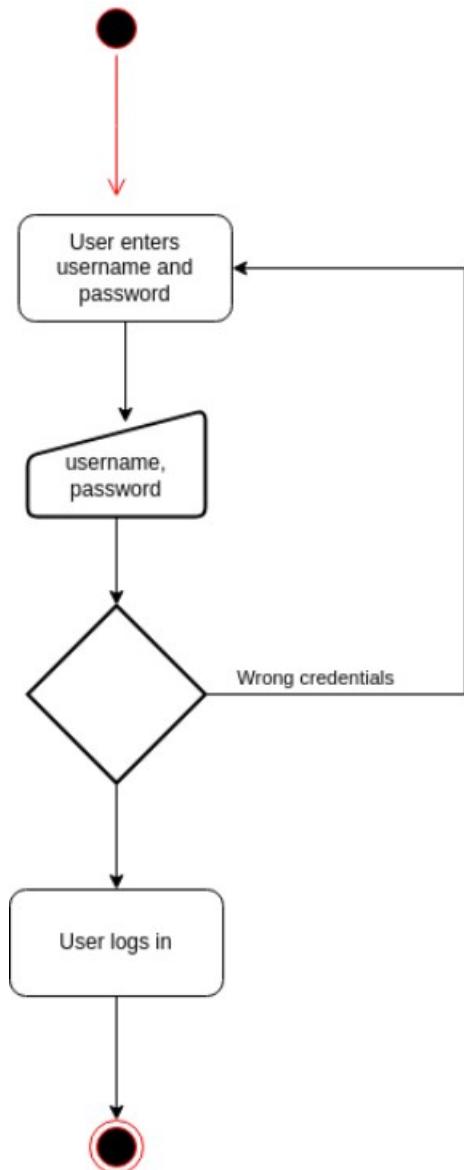


**CD\_05 – UC\_13, UC\_14, UC\_15, UC\_18 – Create visit**



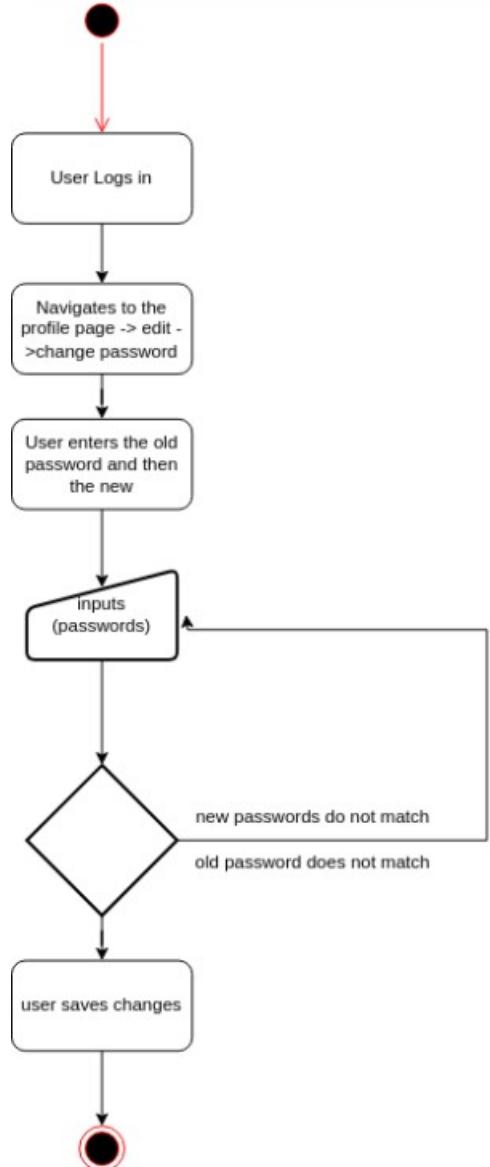
**CD\_06 – UC\_22, UC\_23– Feedback**

#### 4.2.2 Activity Diagrams



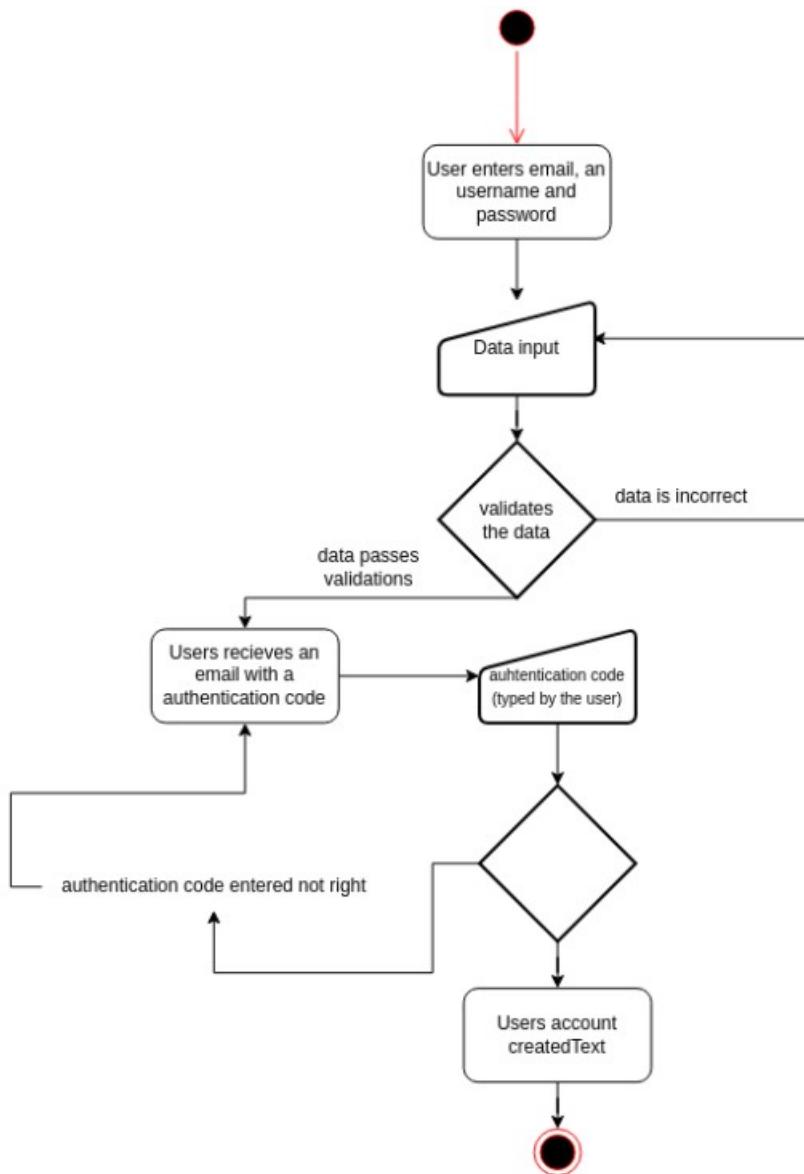
***AD\_01 – US\_01 - User logs in***

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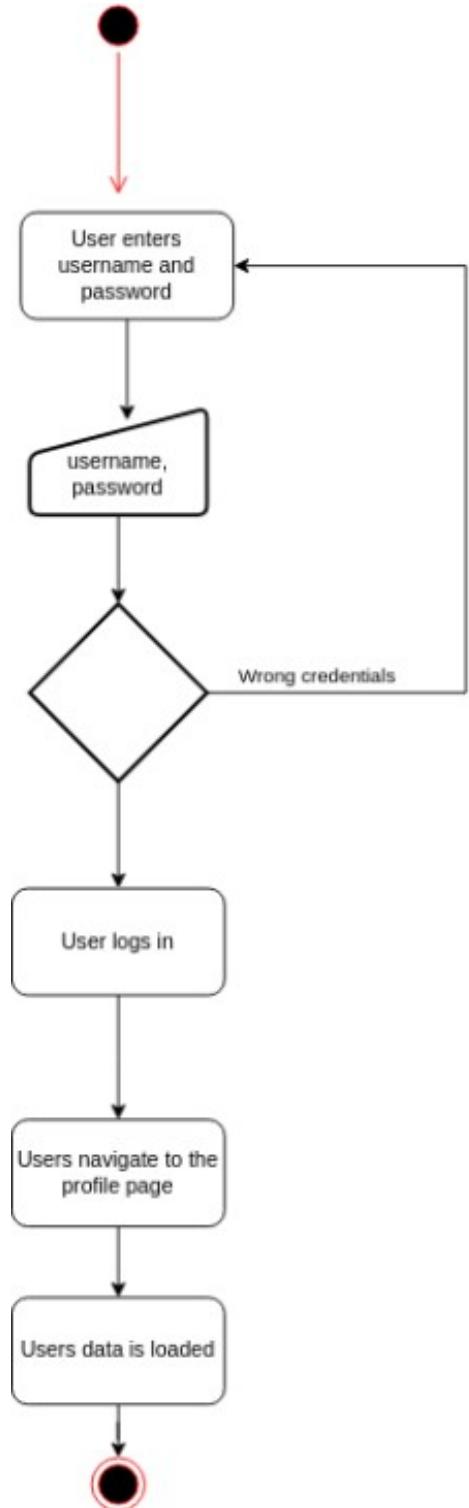
***AD\_02 – US\_02 - Change password***

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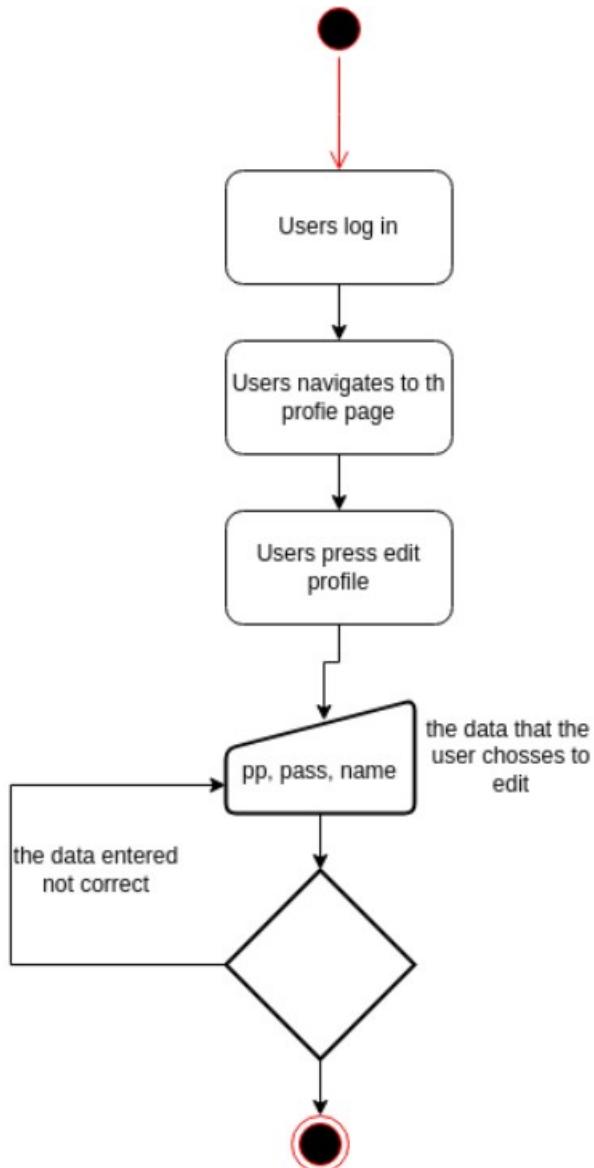
***AD\_03 – US\_03 - User signs up***

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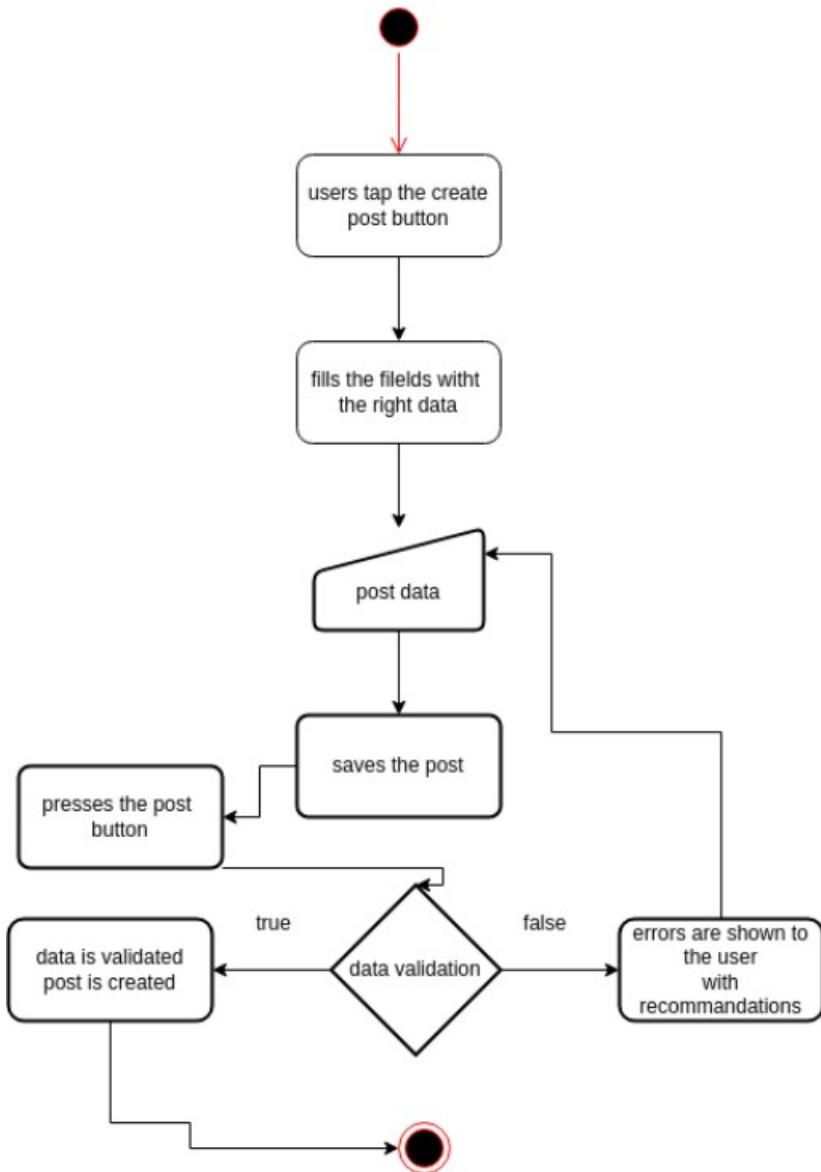


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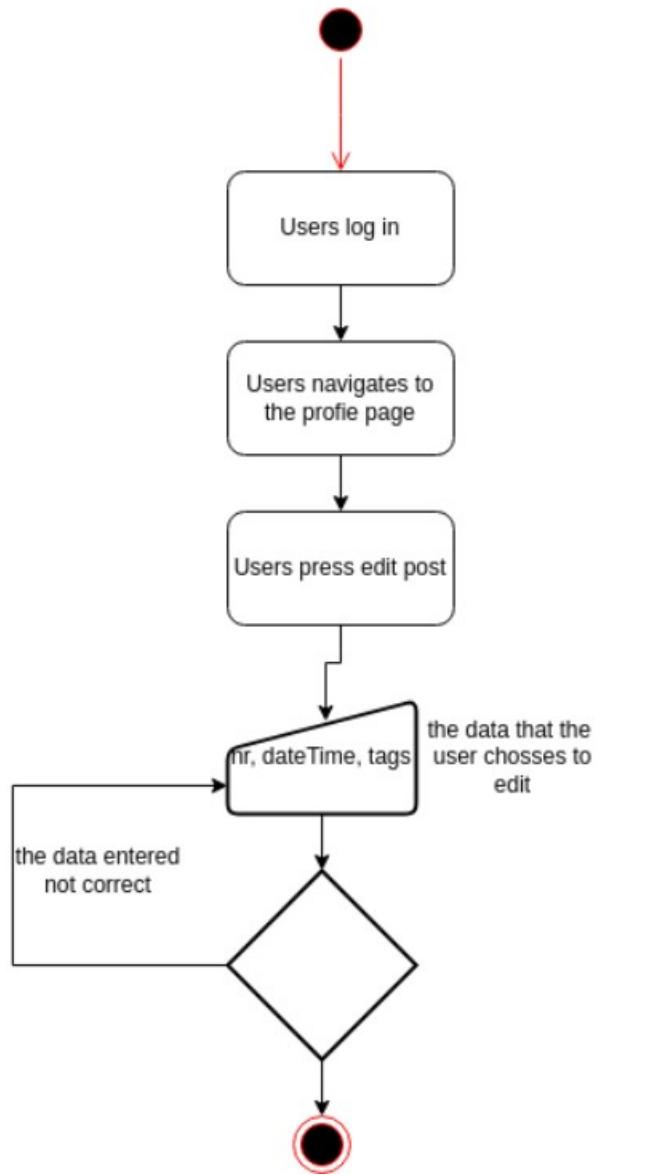
***AD\_04 – US\_04 – View profile***



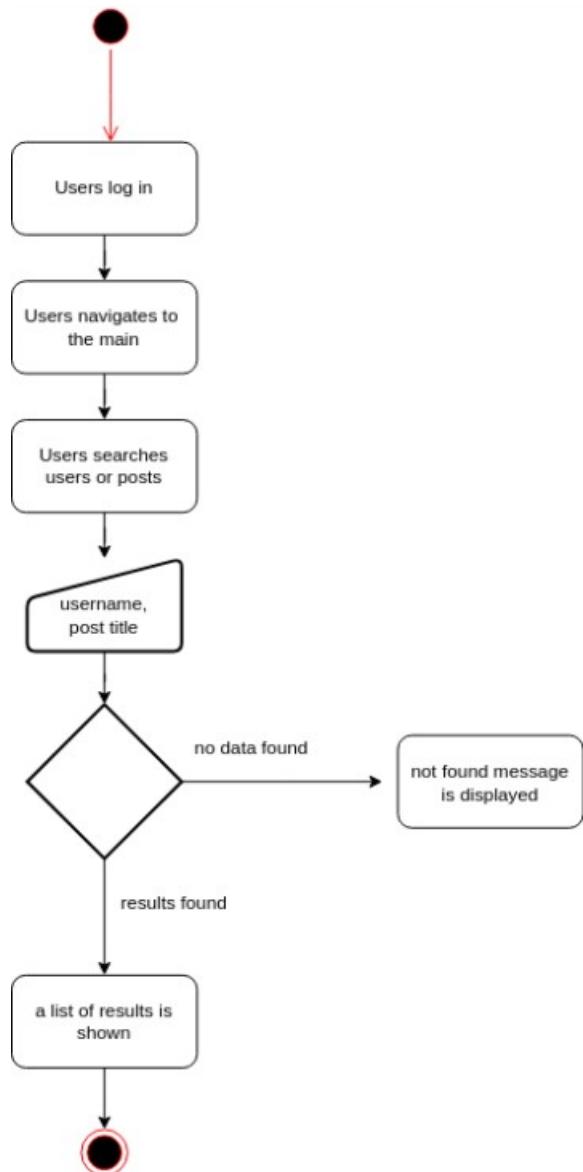
***AD\_05 – US\_05 – Update User***



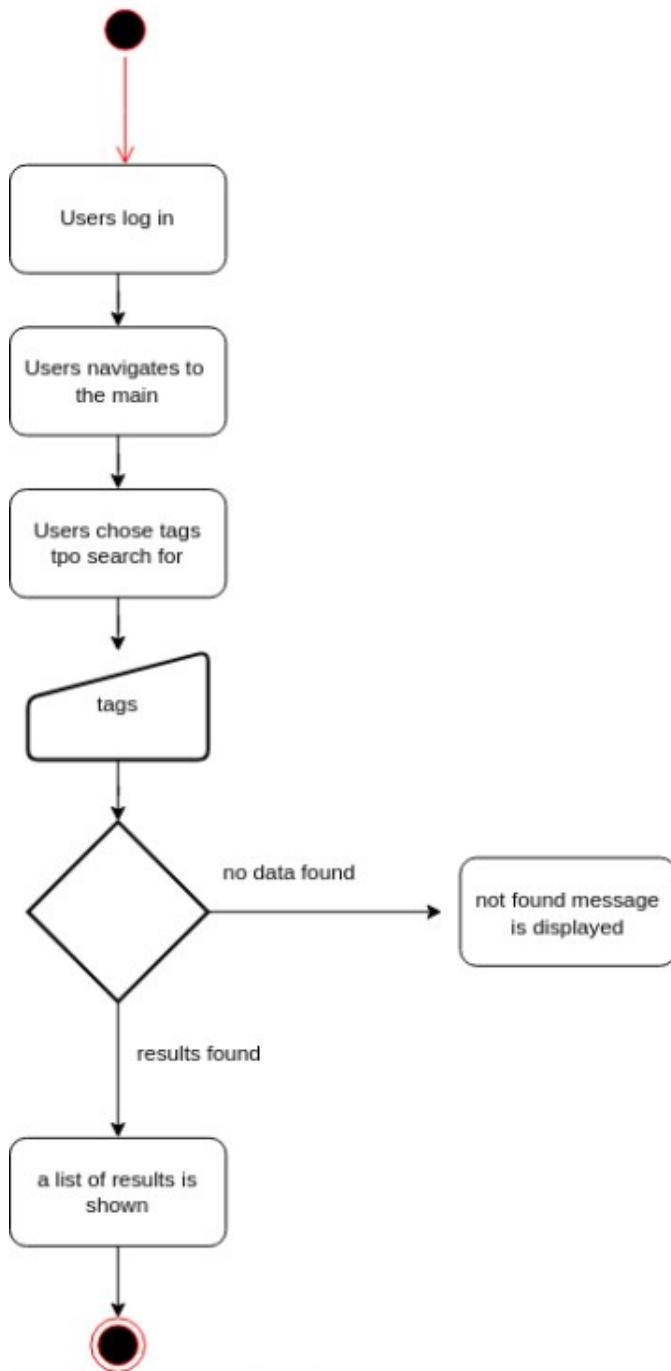
***AD\_06 – US\_06 – Post Event***



*AD\_07 – US\_07 - Update event*

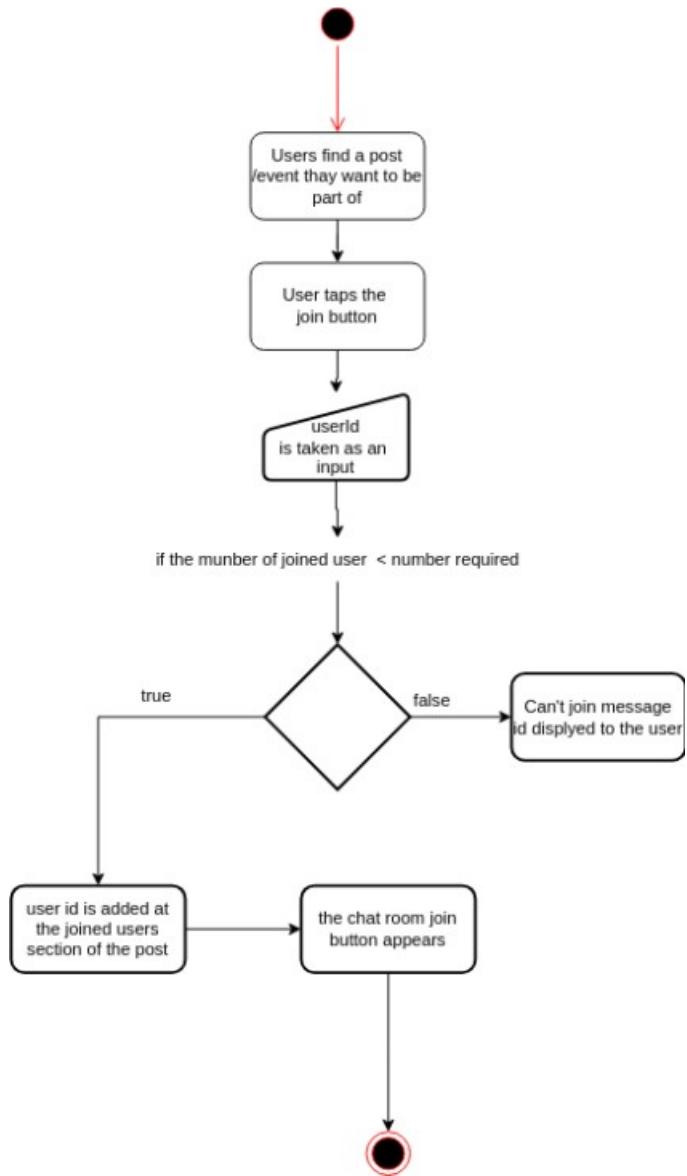


***AD\_08 – US\_08 – Search Users/Posts***



*AD\_09 – US\_09 – Search by tags*

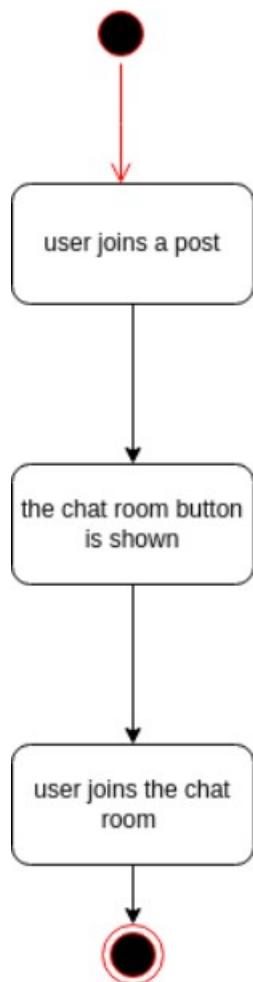
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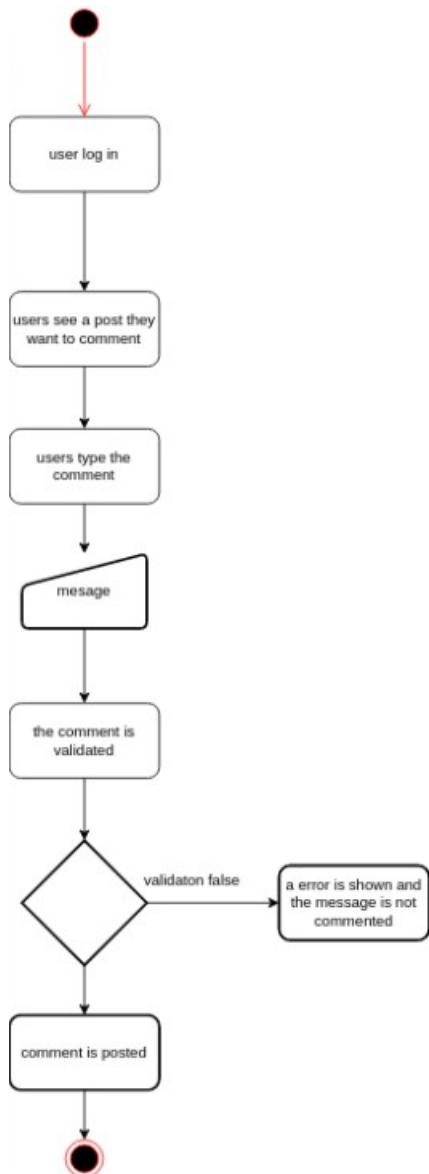
***AD\_01– US\_10 – Users join an event***



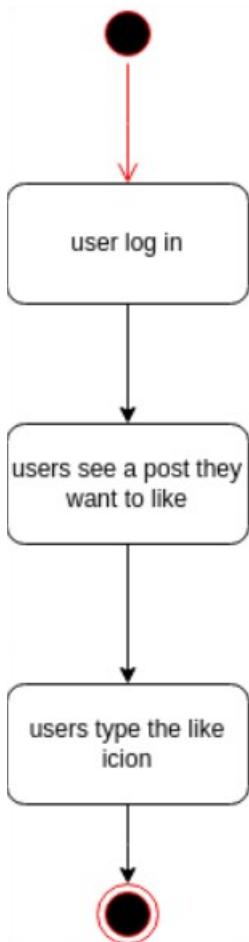
***AD\_11 – US\_11 – Chat Creation***



***AD\_12 – US\_12 – Chatting***

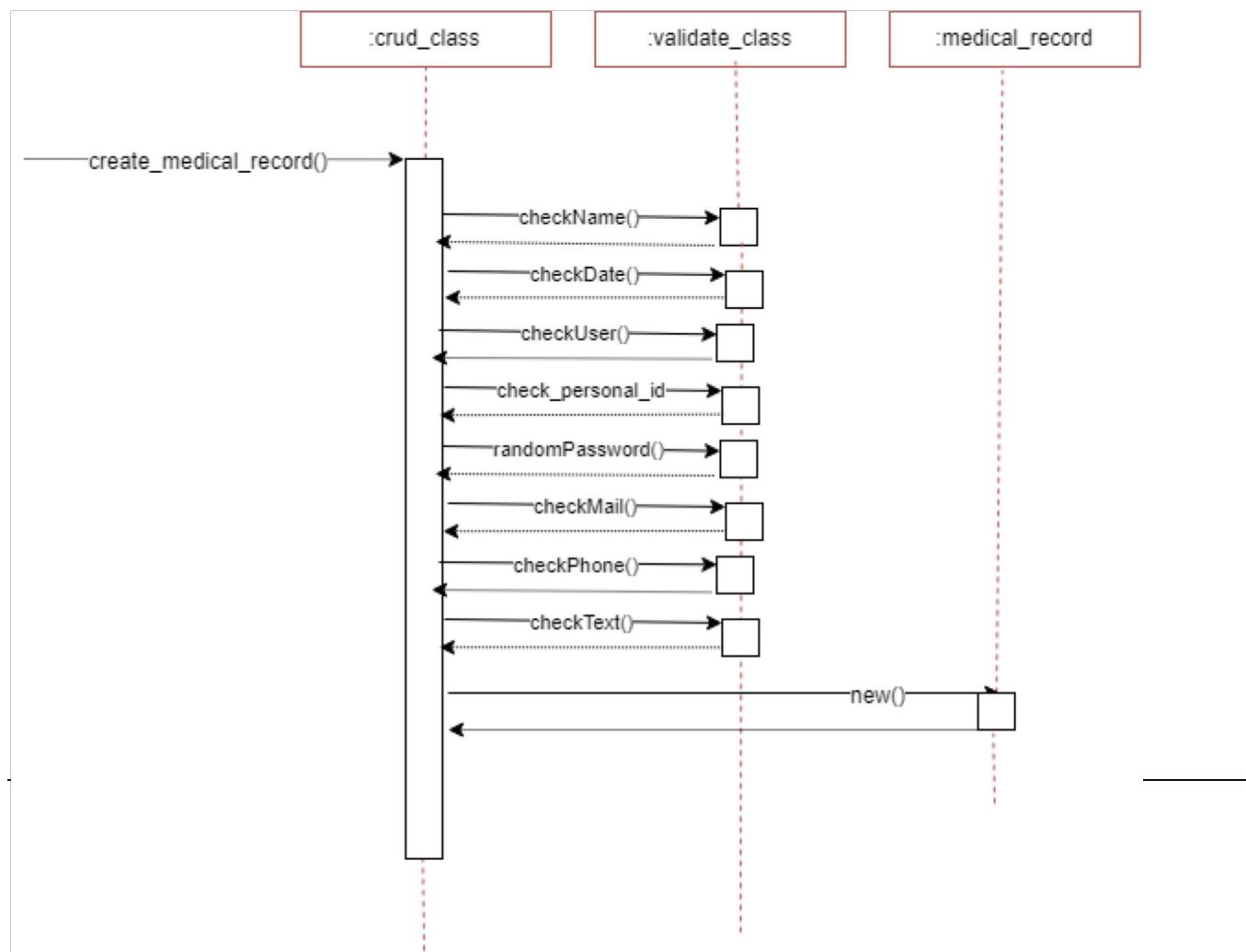


***AD\_13 – US\_13- Comment on posts***

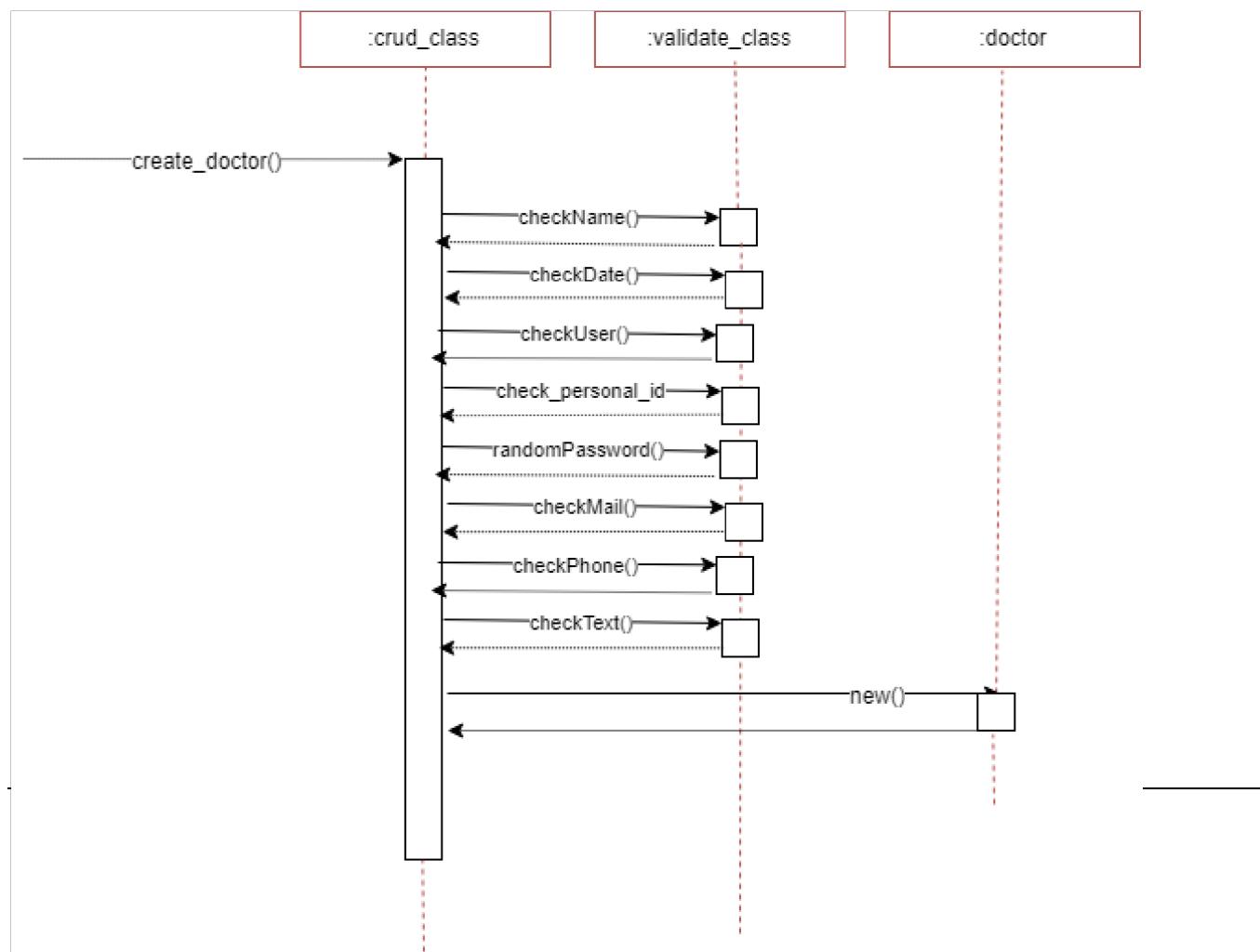


**AC\_14 – US\_14 – Like a post**

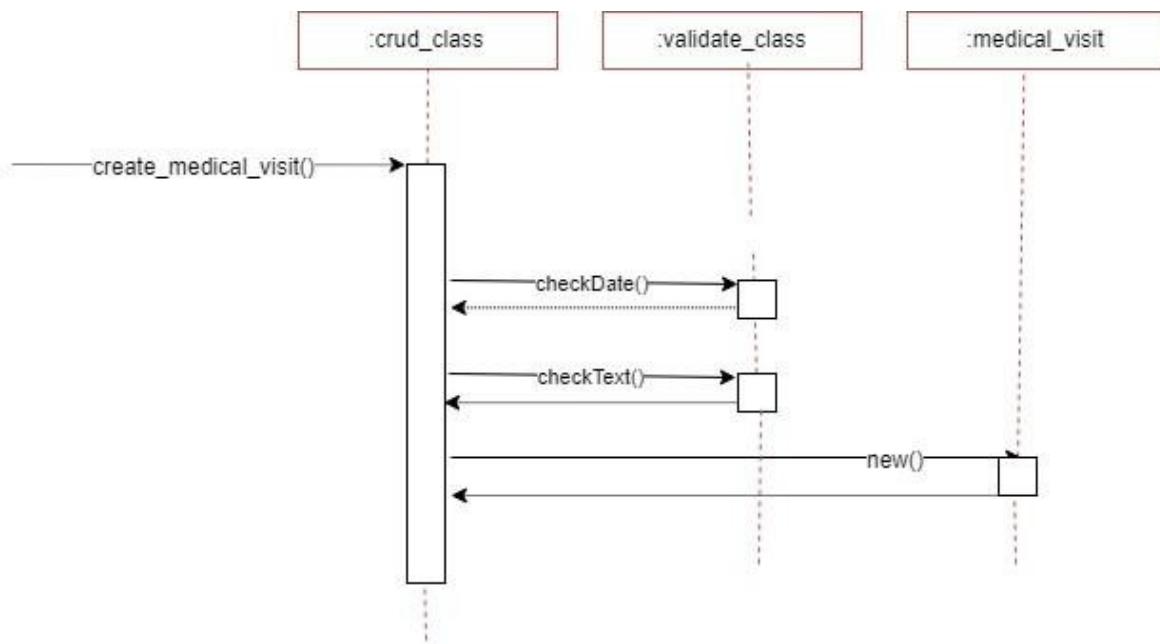
#### 4.2.4 Sequence Diagrams



***SeqD\_01 – Create medical record***

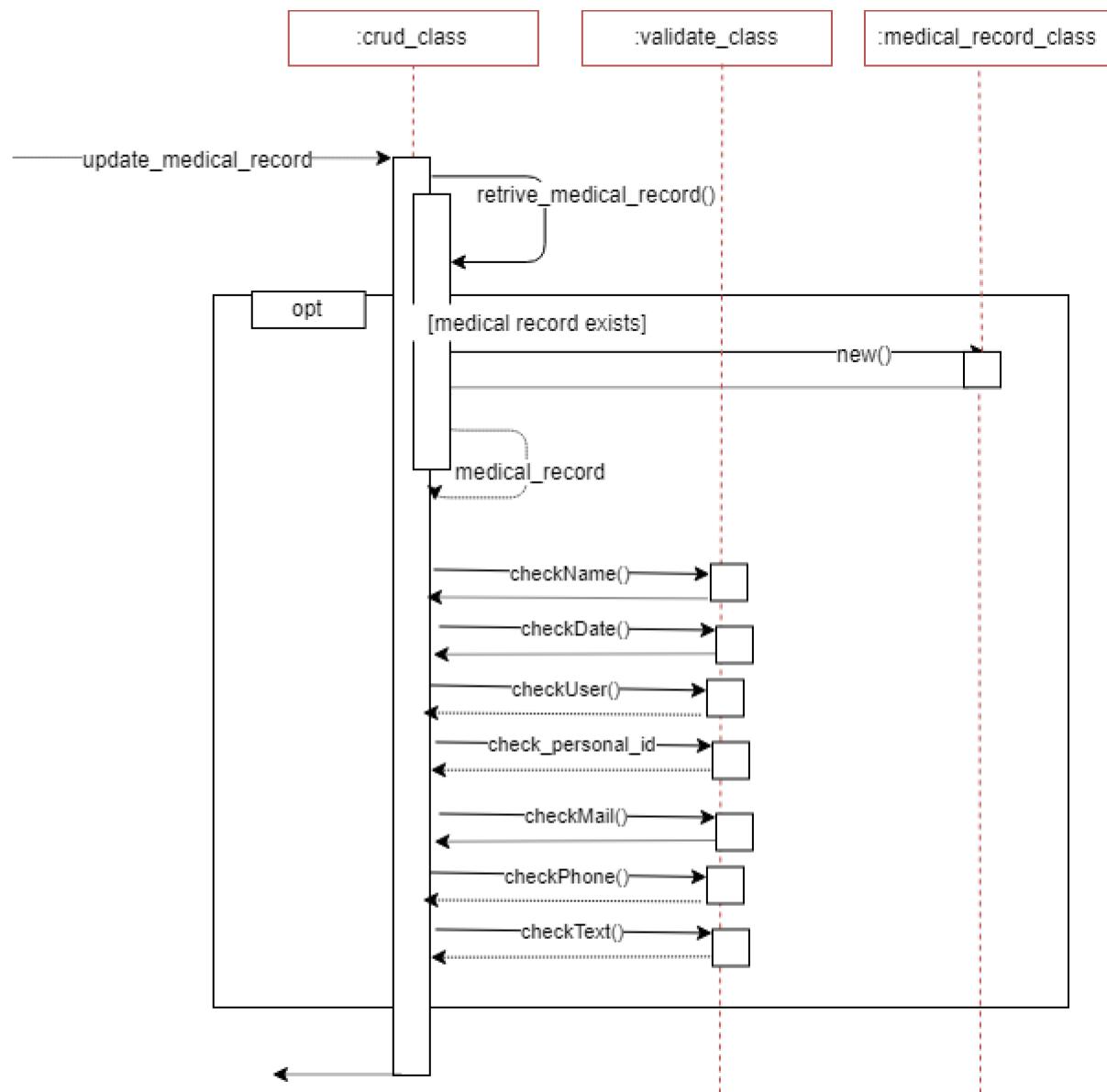


**SeqD\_02 – Create doctor**

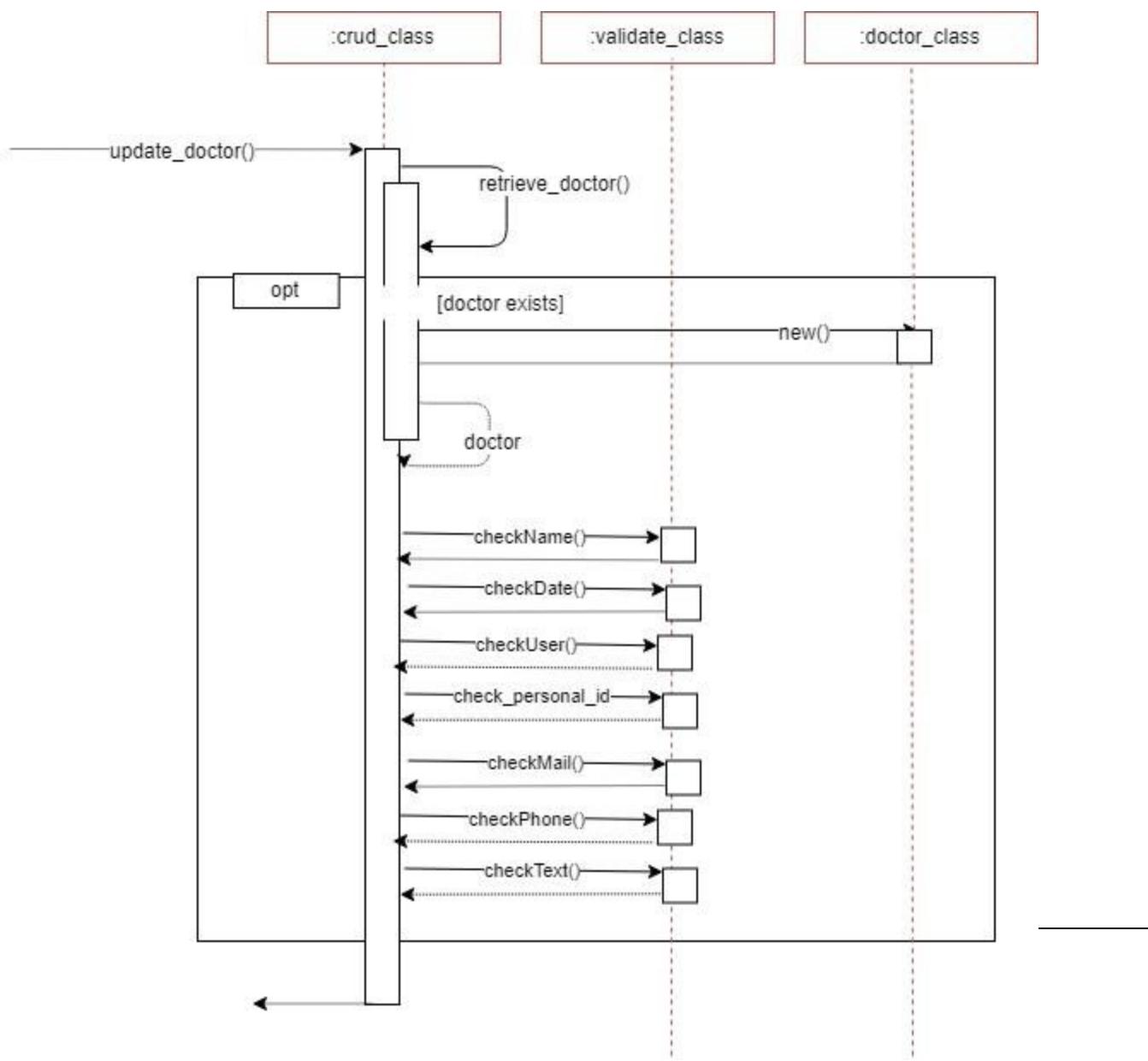


**SeqD\_03 – Create medical visit**

## HobbyTales Documentation

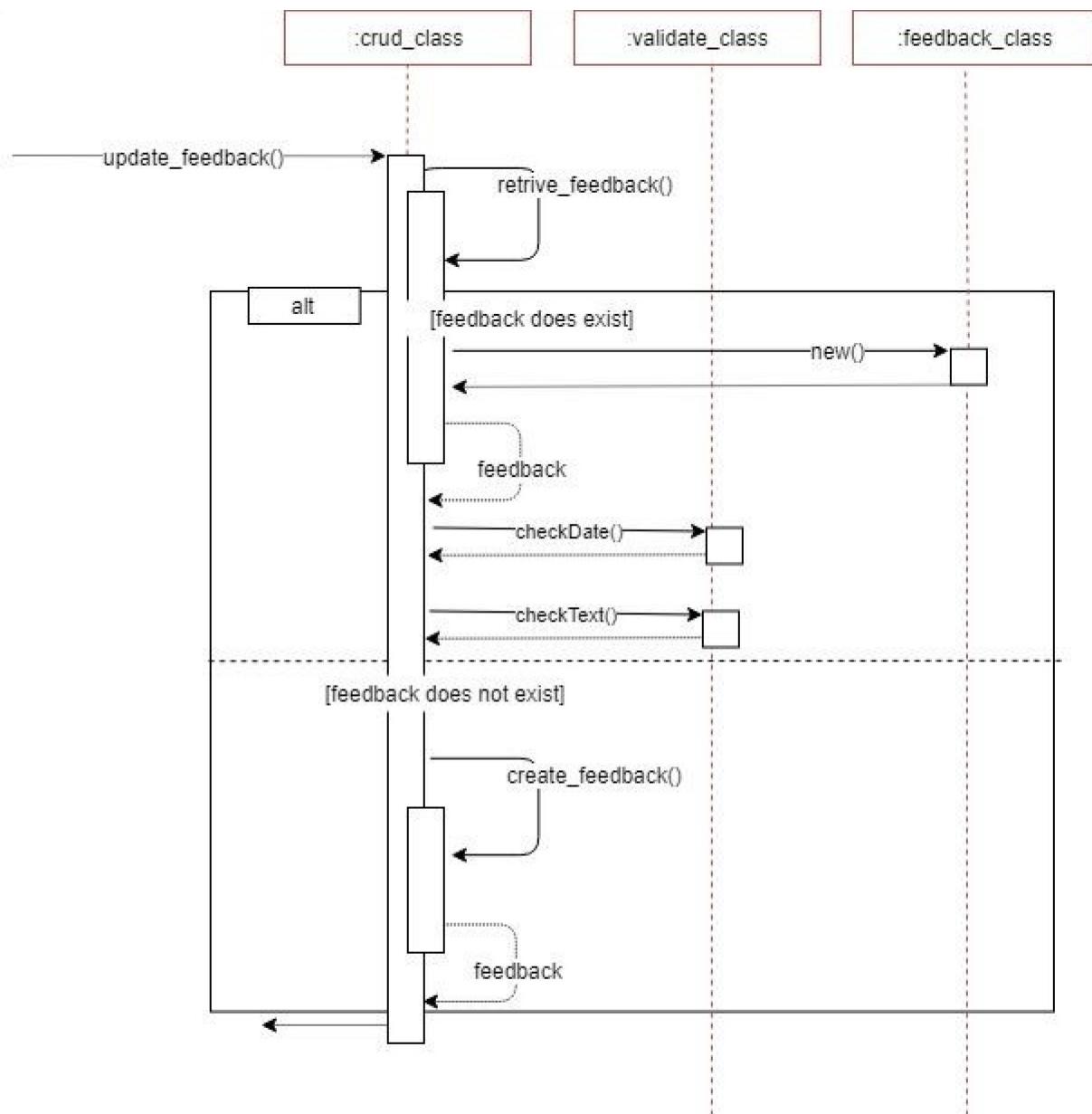


*SeqD\_04 – Update medical record*



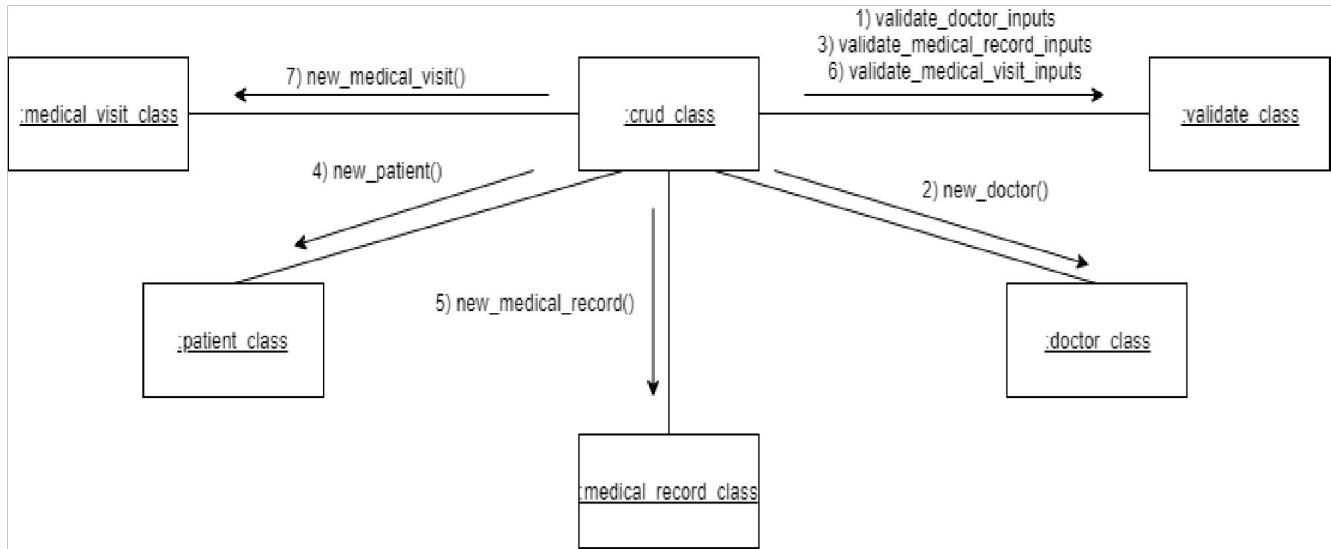
***SeqD\_05 – Update doctor***

### HobbyTales Documentation



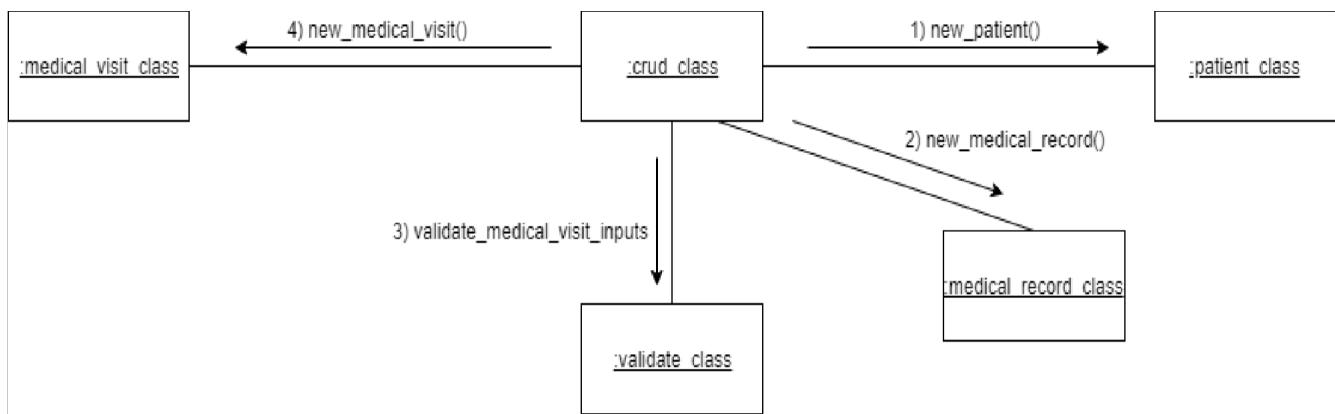
**SeqD\_06 – Update feedback**

#### 4.2.5 Collaboration Diagrams



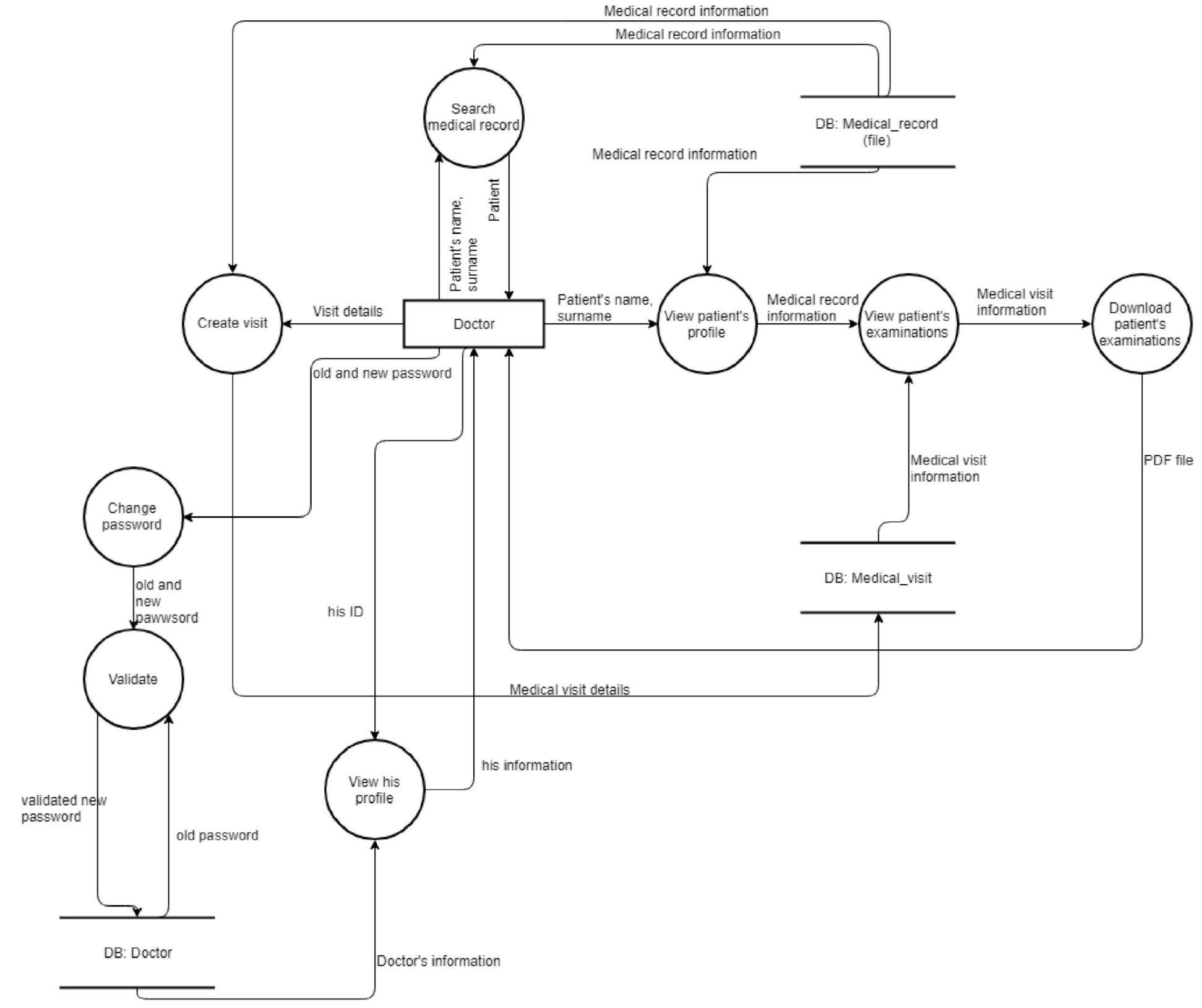
**ColD\_01 – SeqD\_01, SeqD\_02, SeqD\_03 – Create visit when there does not exist a doctor and a patient**

### ***HobbyTales Documentation***



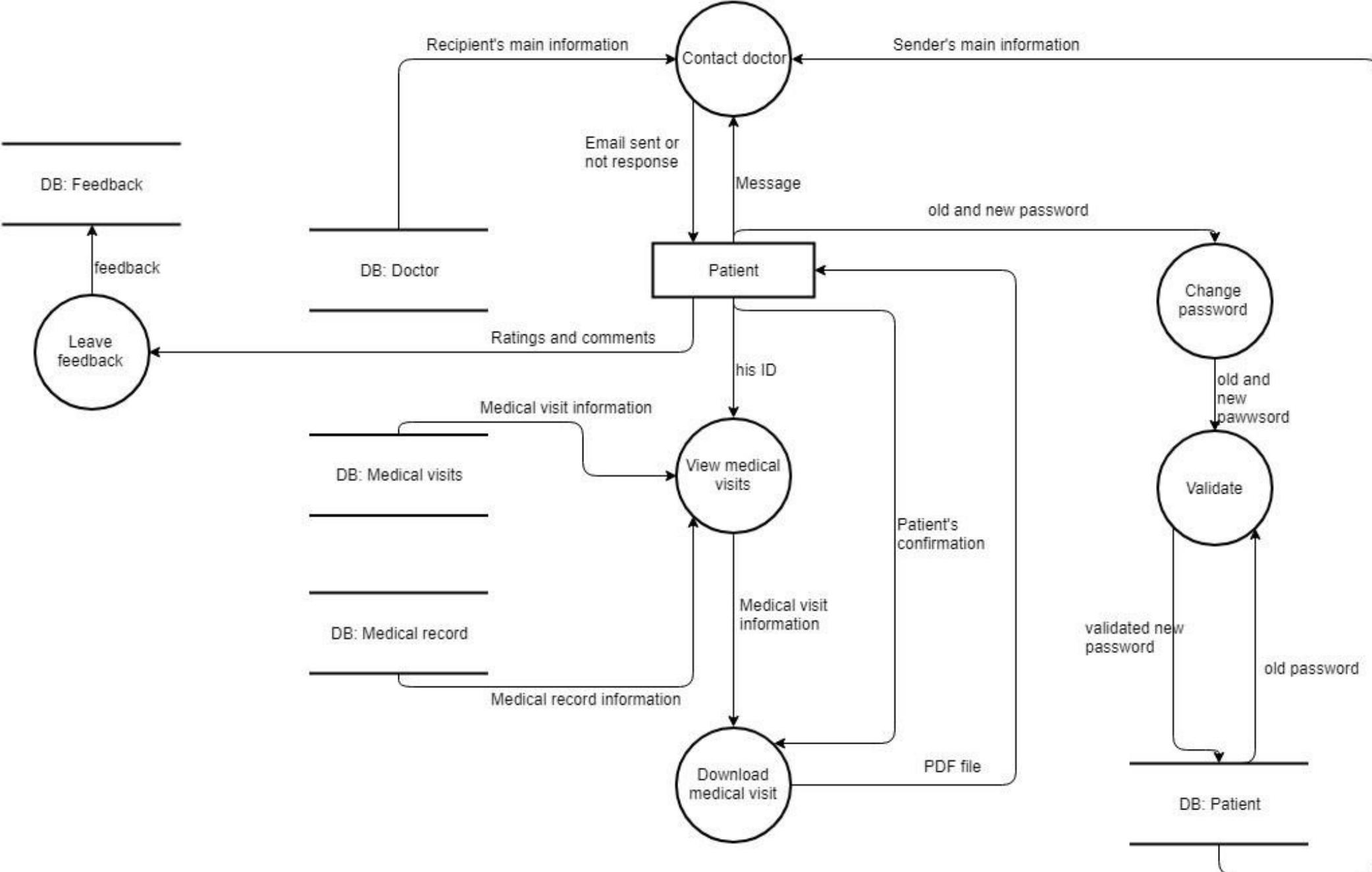
***ColD\_02 – SeqD\_01, SeqD\_02, SeqD\_03 – Create visit when there exists a patient***

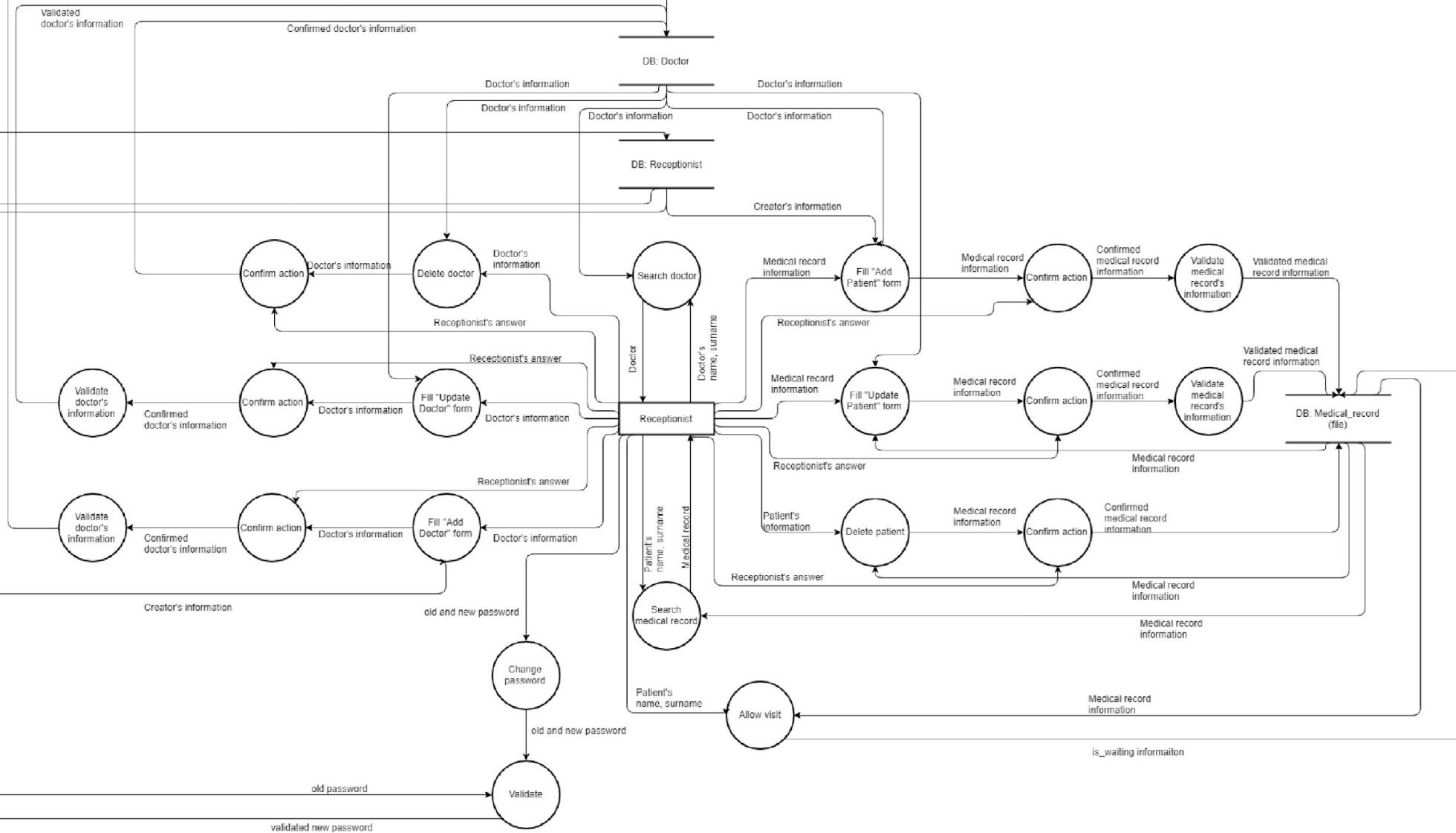
#### ***4.3 Data Flow Diagrams***



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***Data Flow Diagram 1 Doctor***

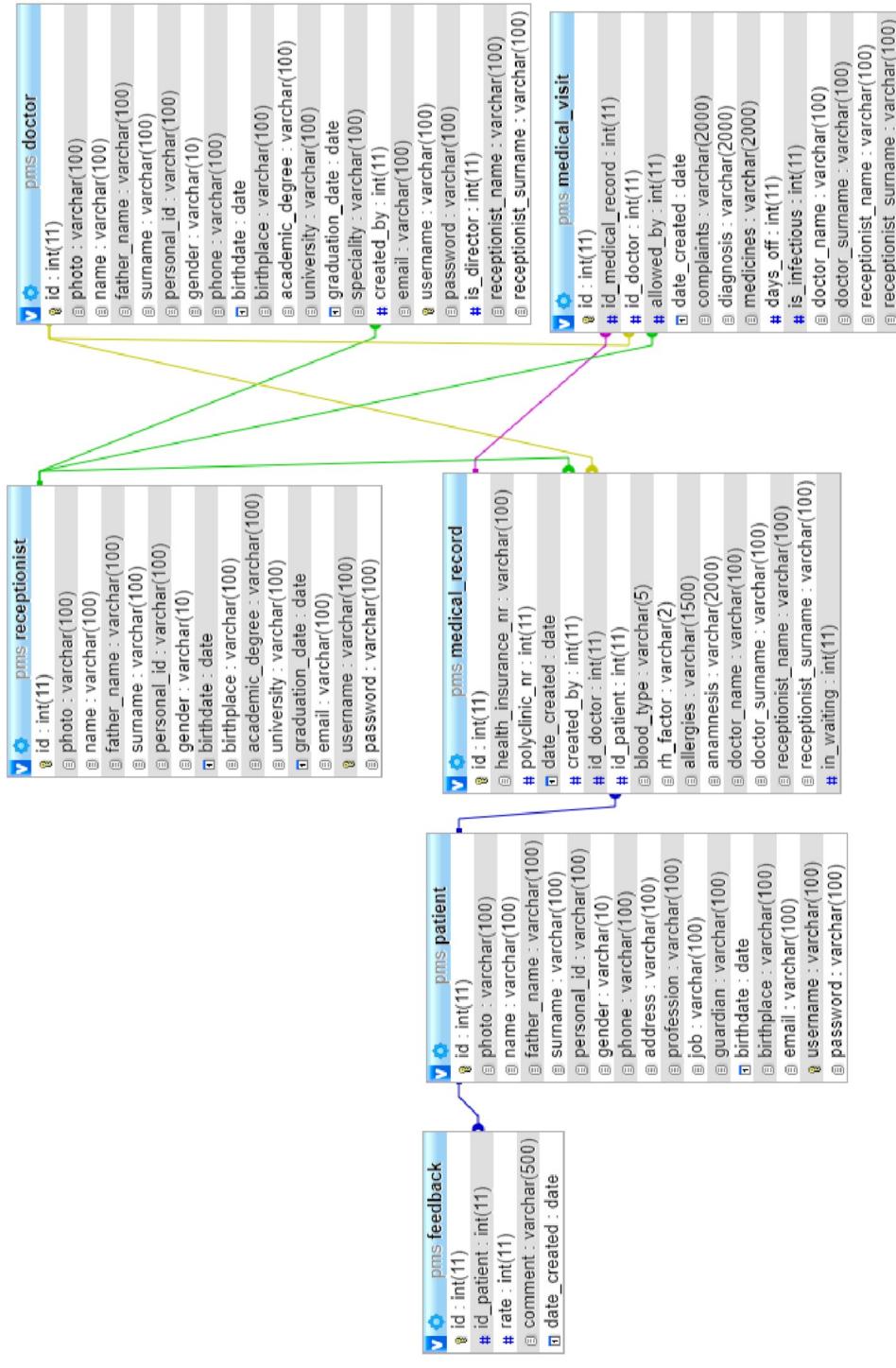




**Data Flow Diagram 2 Patient Data Flow**  
**Diagram 3 Receptionist**

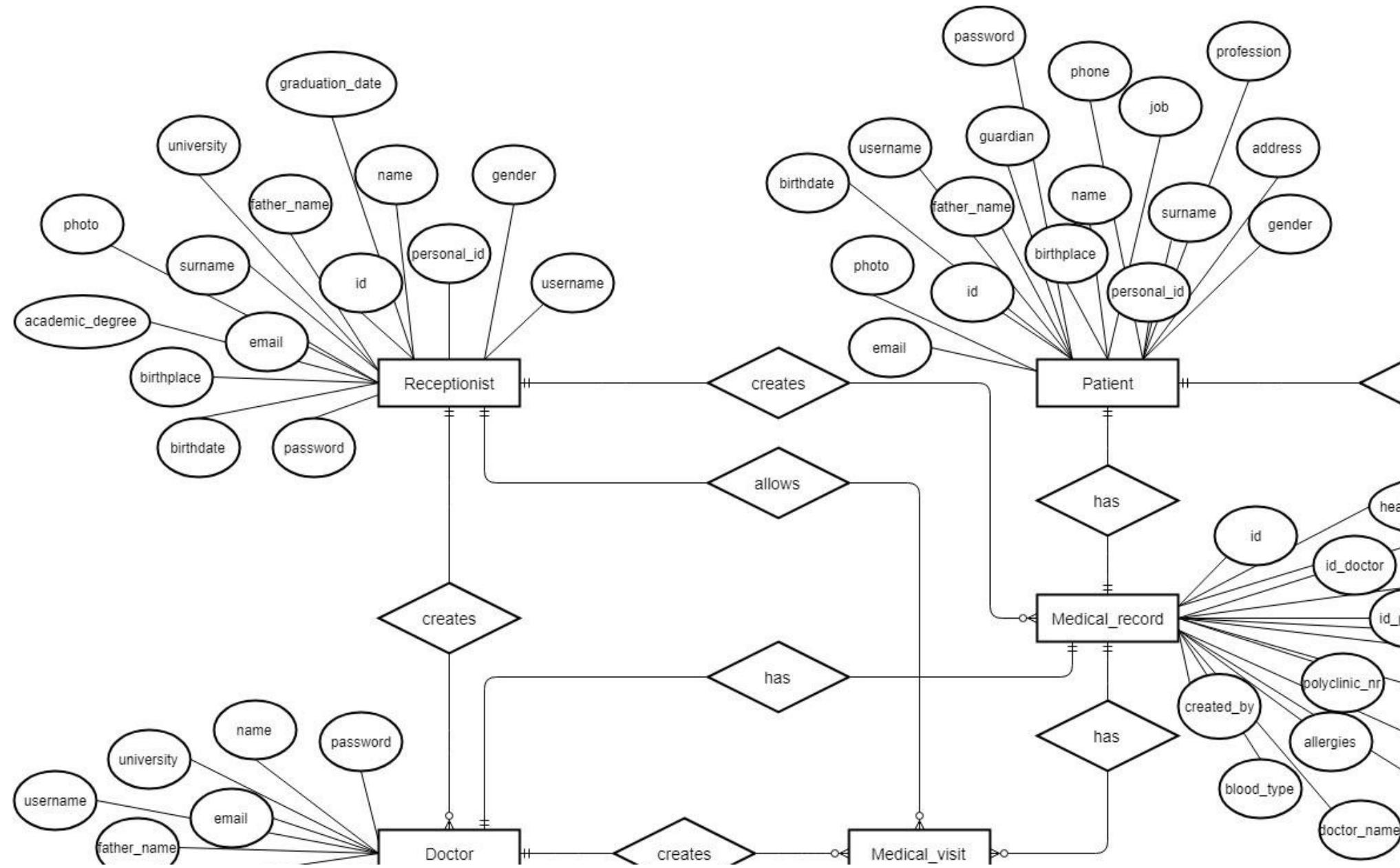
## 4.4 Entity Relation

### 4.4.1 Database Schema Design



*PMS Documentation*

**4.4.2 Entity Relation Diagram**

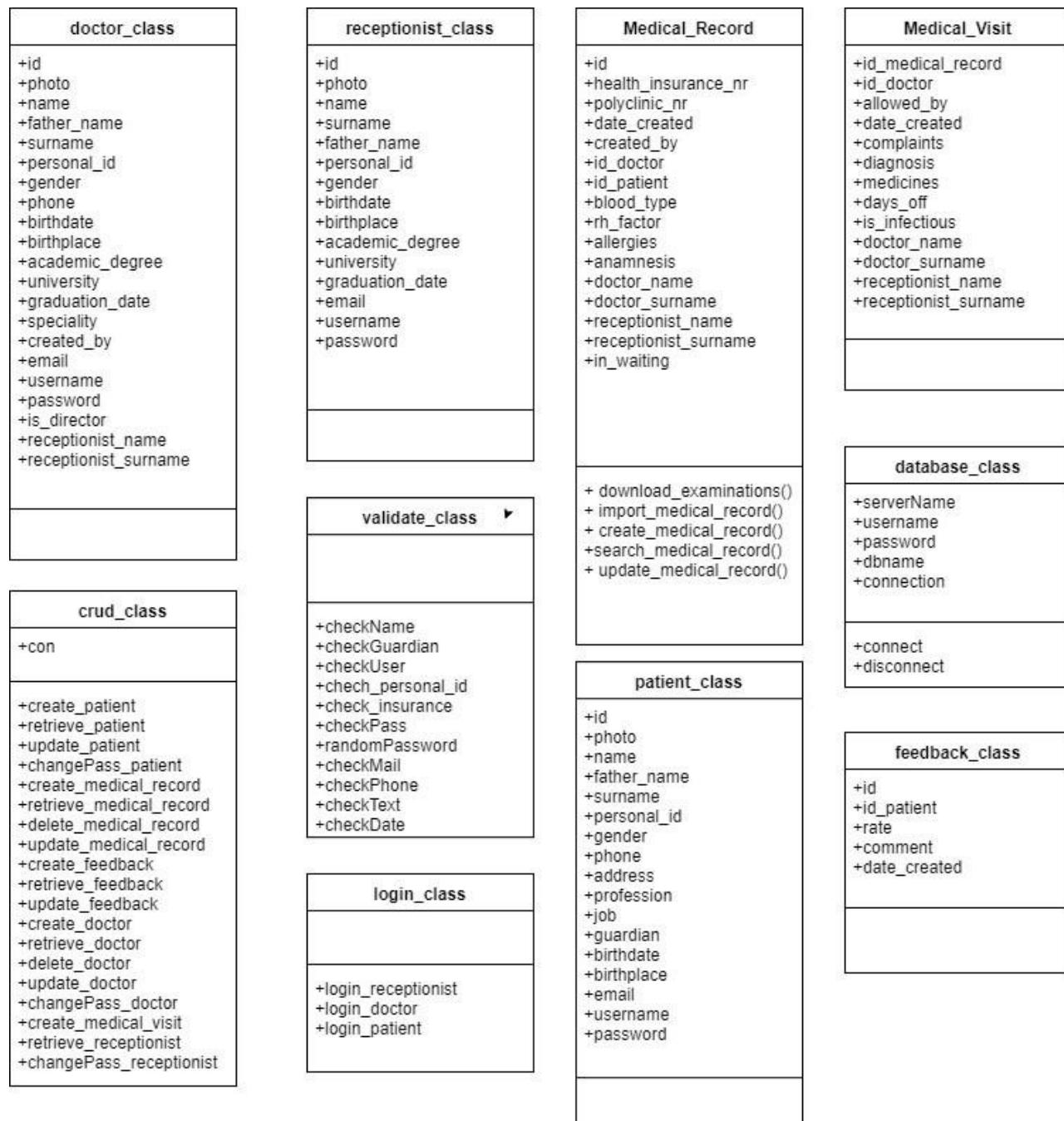


***Entity Relation Diagram***

June 3, 2018 Page 82

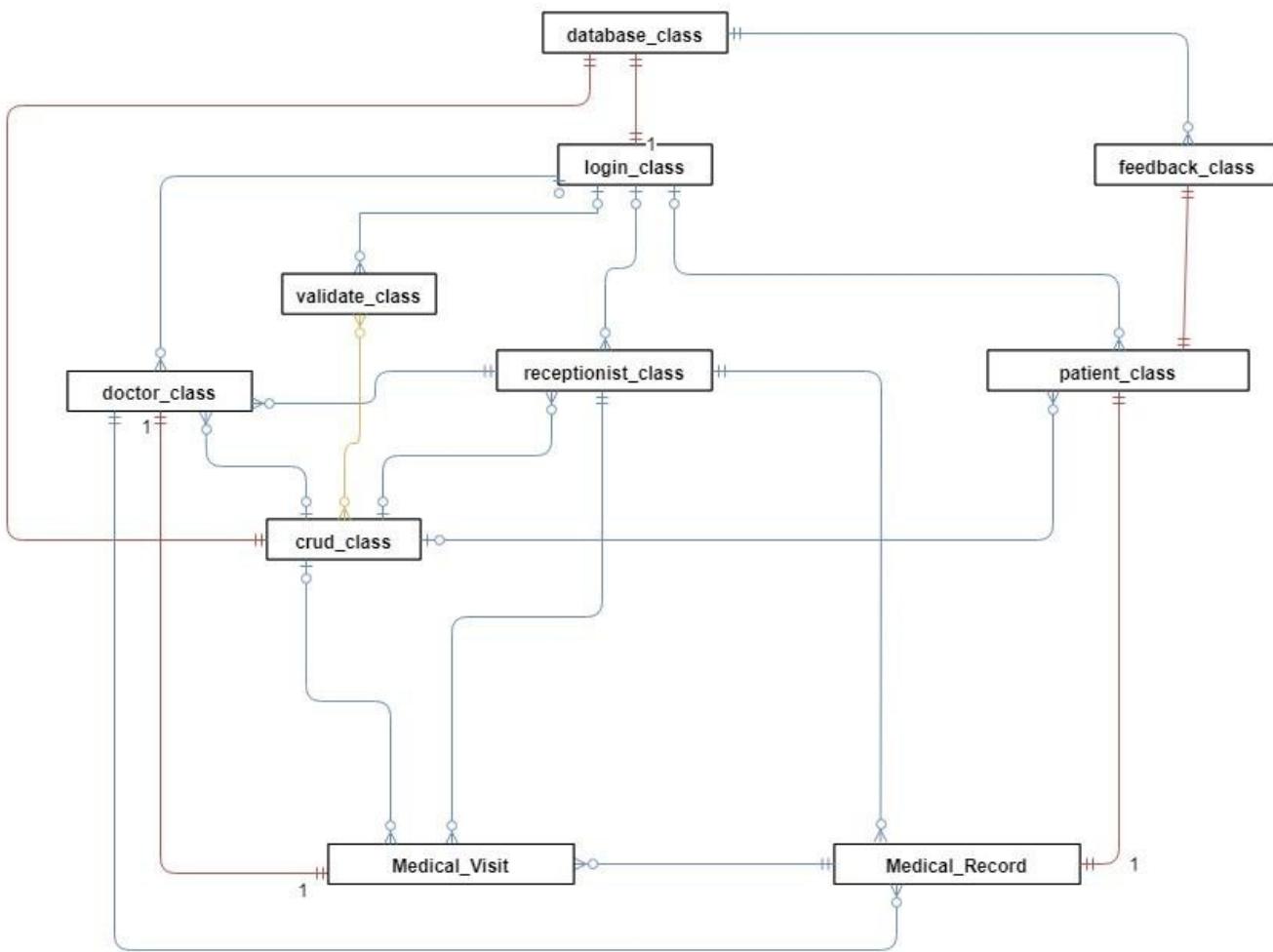
## 4.5 Structural Diagrams

### 4.5.1 Class Diagram



***CD\_01 – Attributes and methods list for each class***

### PMS Documentation

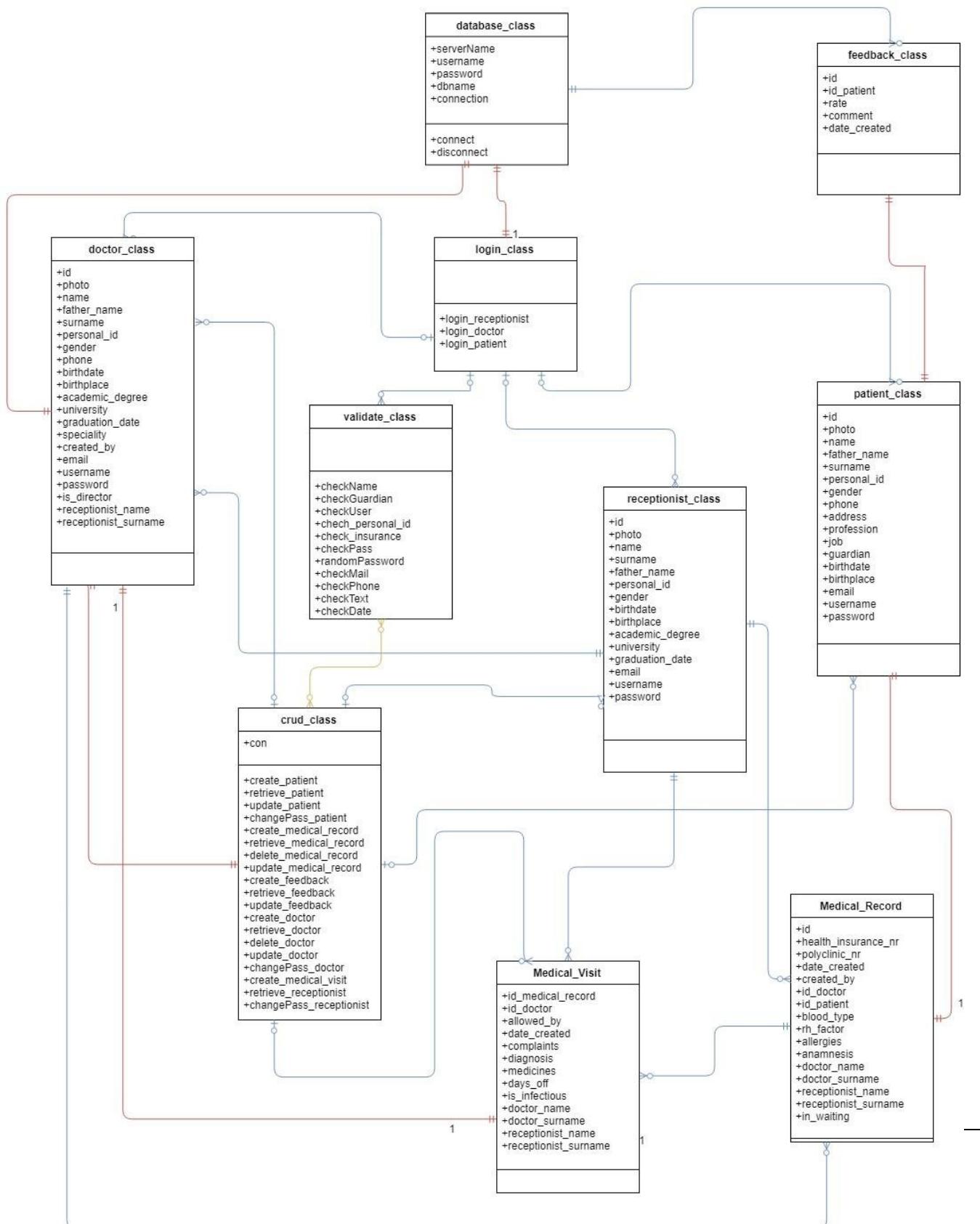


1

### CD\_02 – Relation between classes

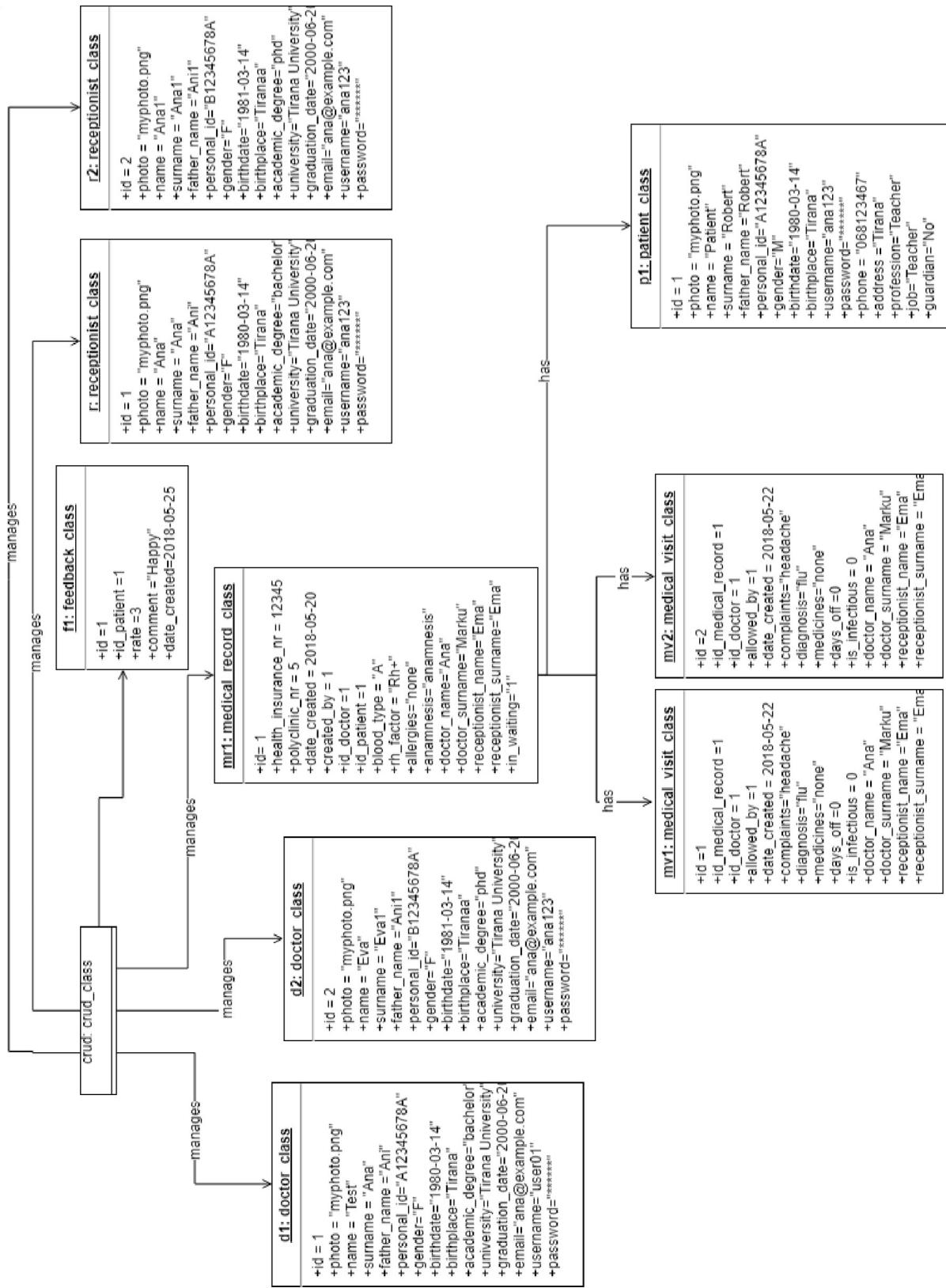


## PMS Documentation



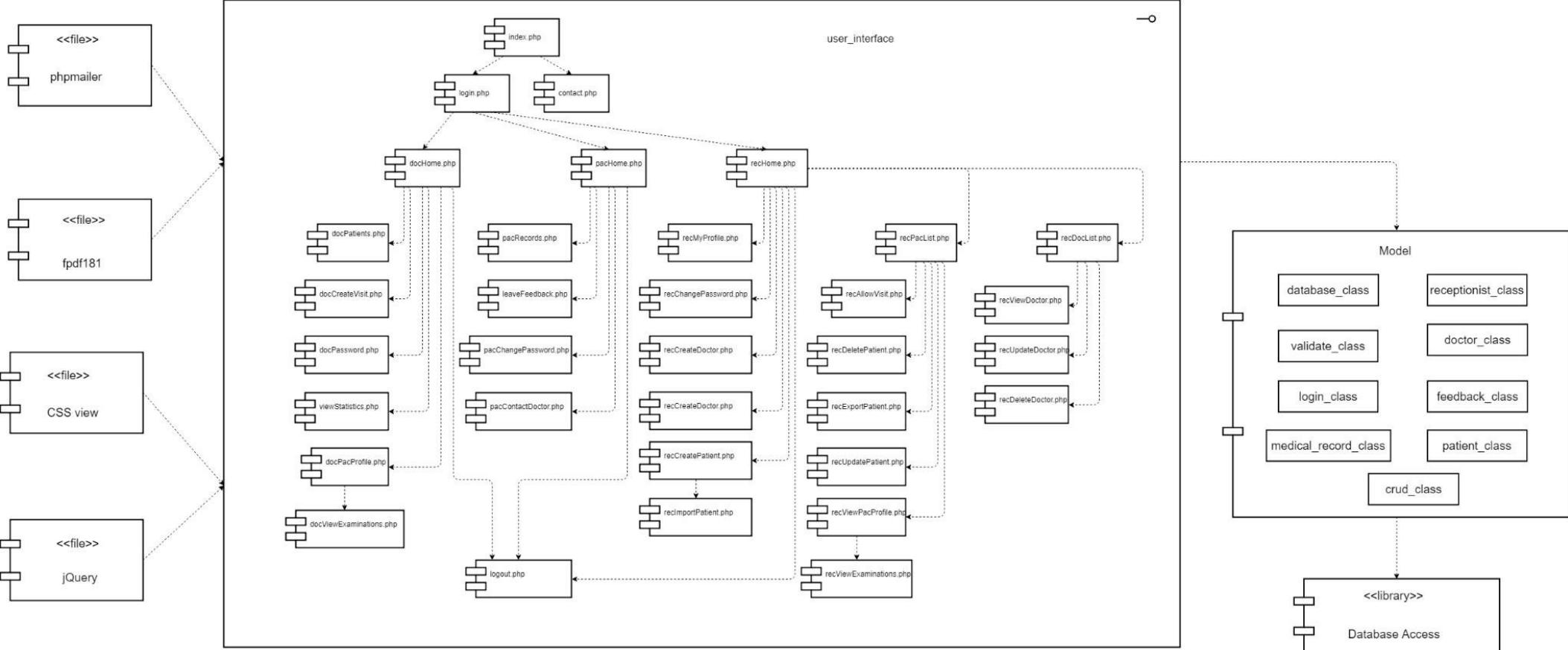
***CD\_03 – Complete class diagram***

**4.5.2 Object Diagrams**



## OD\_01 – Complete object diagram





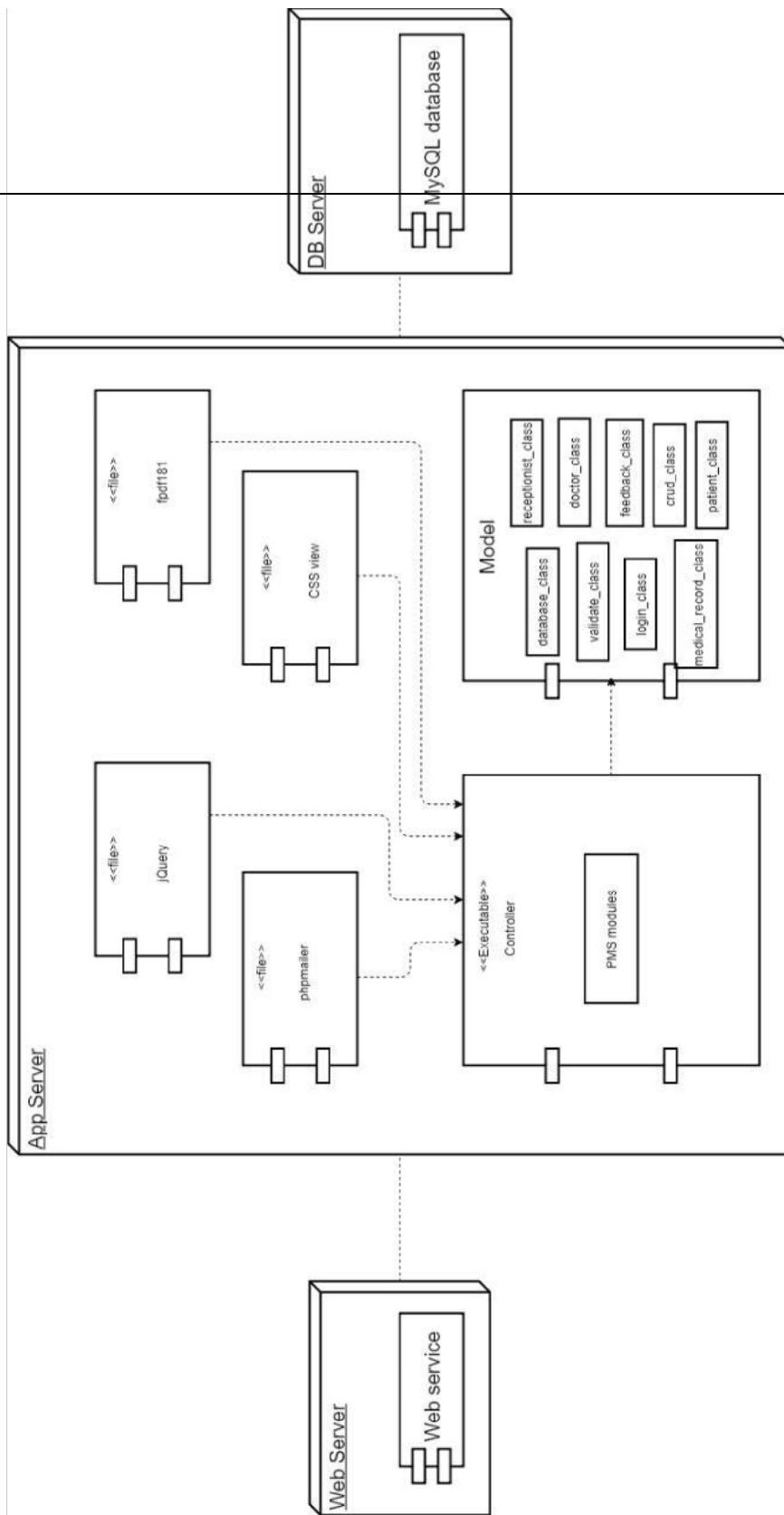
## PMS Documentation

### 4.5.3 Component Diagrams

#### Component Diagram

June 3, 2018 Page 87

#### 4.5.4 Deployment Diagram



## ***DD\_01 – Deployment diagram***

### **5. Implementation Technology**

PMS is a dynamic Web Application. For the creation of this software, we have combined Client Side Scripting and Server Side Scripting. The communication between the client and the server will take place via HTTP protocol.

For the Client Side Scripting we have used the following technologies:

- HTML 5 (HyperText Markup Language)
- CSS 3 (Cascading Style Sheets)
- JavaScript
- Ajax (Asynchronous JavaScript and XML)
- jQuery (JavaScript Framework Library)

For the user interface (UI) we have used an open source template, designed with Bootstrap, to make the software intuitive and more easy and attractive for the user. We have made the necessary changes to this template in order to make it similar with what we had planned before (Sketches and Detailed Design).

For the Server Side Scripting, we have used PHP. This allows the users to interact with the software and with each other. We have used the OOP approach (Object Oriented Programming). We have used classes for each system user, actor: doctor class, receptionist Class, patient Class.

We have used a CRUD class, which contains all the functions needed to modify: patients, receptionists, doctors, medical records, medical visits and feedback.

We have also used a validation class, which contains all the necessary functions for validation text, passwords, email etc.

To administrate MySQL over the web, phpMyAdmin has been used. The database that we have created for this Web Application can be found in the Epoka University Server:

<http://stud-proj.epoka.edu.al/phpmyadmin/>

In the same server, you can also find the entire project (Web Application) under a personal account:

<http://stud-proj.epoka.edu.al/~sqirk015/>

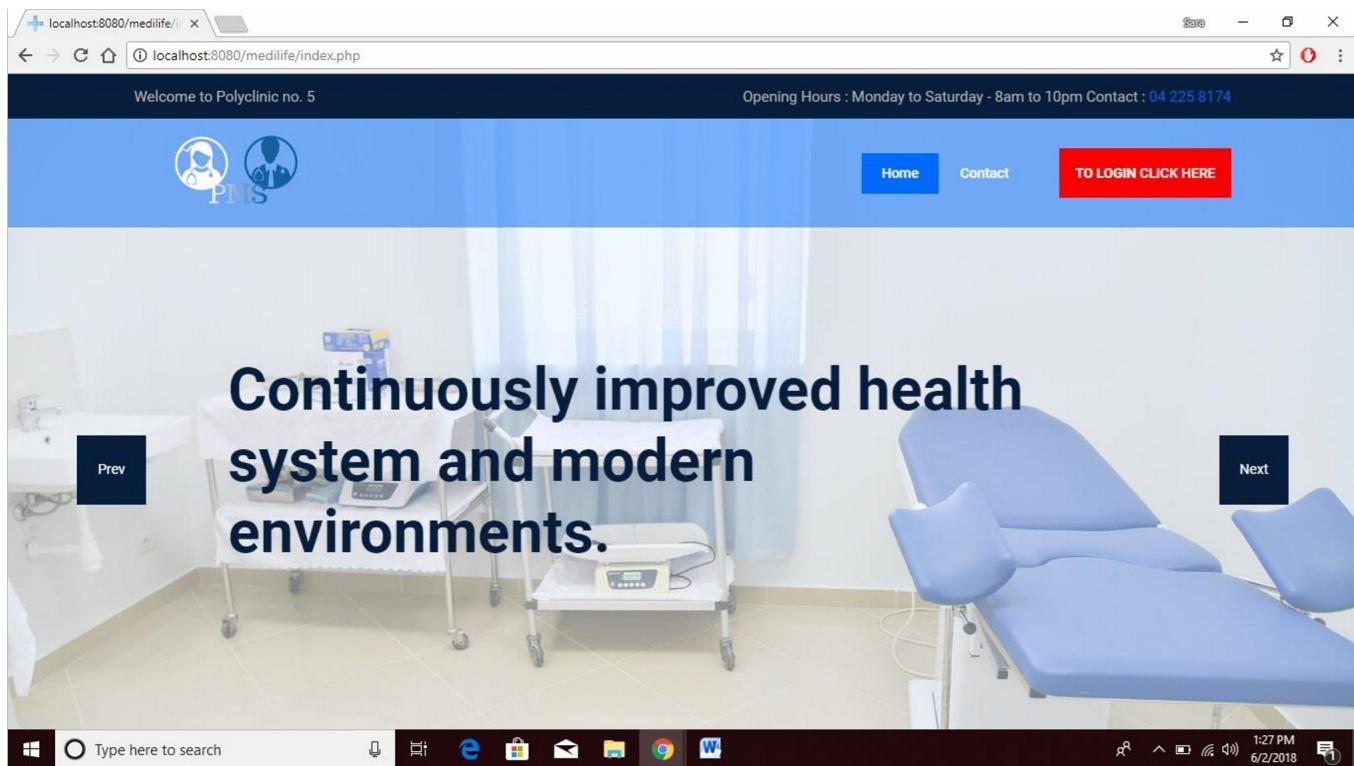
This project is also published in github, where you can find the step by step procedure of the creation of this project (diagrams, designs, requirements, meeting reports, personal logs, etc.):

<https://github.com/sqirk015/PMS/>

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In the following print screens, you can see the implemented product.

## PMS Documentation



PS\_01 – Home page

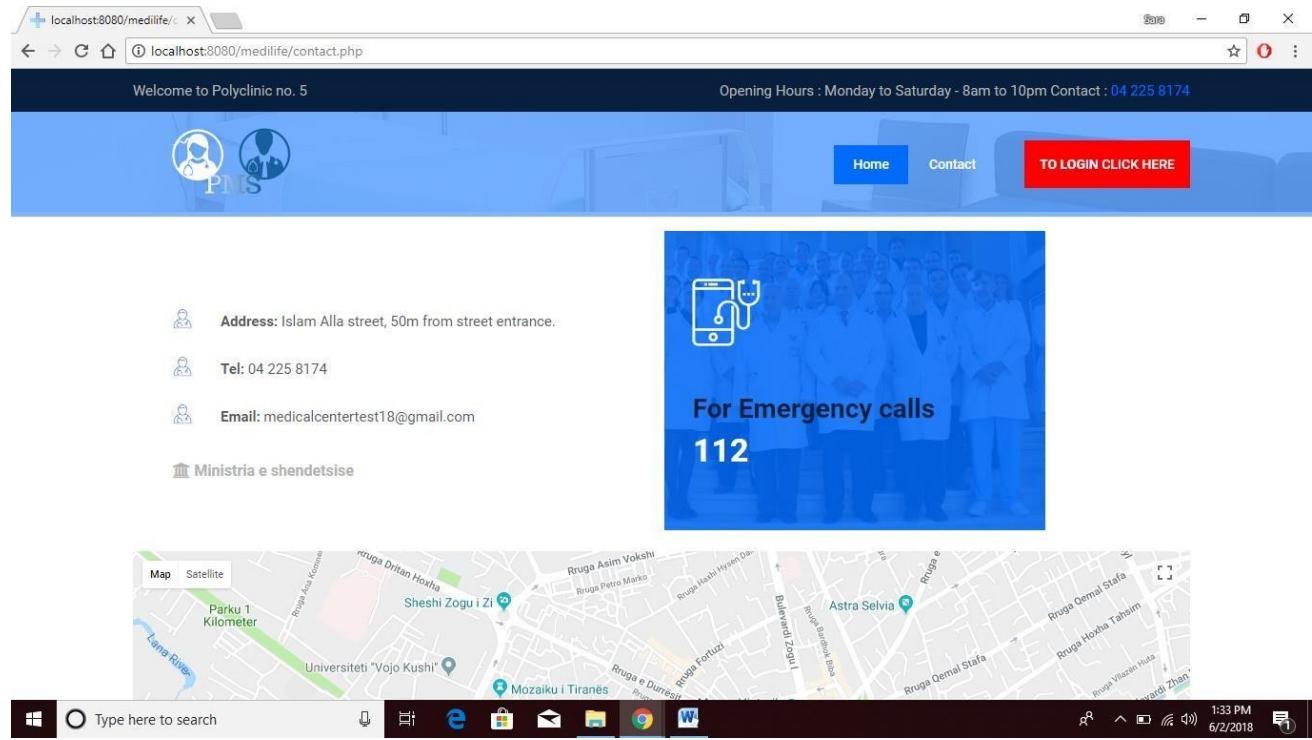
## PMS Documentation

The screenshot shows the PMS Documentation home page. At the top, there are two circular icons: one with a person and another with a building. Below them, the letters "PMS" are displayed. A navigation bar includes "Home", "Contact", and a red button "TO LOGIN CLICK HERE". In the center, three blue icons represent data: a stylized atom, a microscope, and a doctor's profile. Below each icon are numerical values: "9" for Patients, "2.0000" for Average Visits per day, and "8" for Doctors. A horizontal banner at the bottom features four small images of medical scenes: a hallway, a doctor examining a patient, a group of people in a room, and a close-up of a medical professional. A "See More +" button is visible on the right side of the banner. The Windows taskbar at the bottom shows various open applications and the date/time: 1:31 PM, 6/2/2018.

### PS\_02 – Home page (continue)

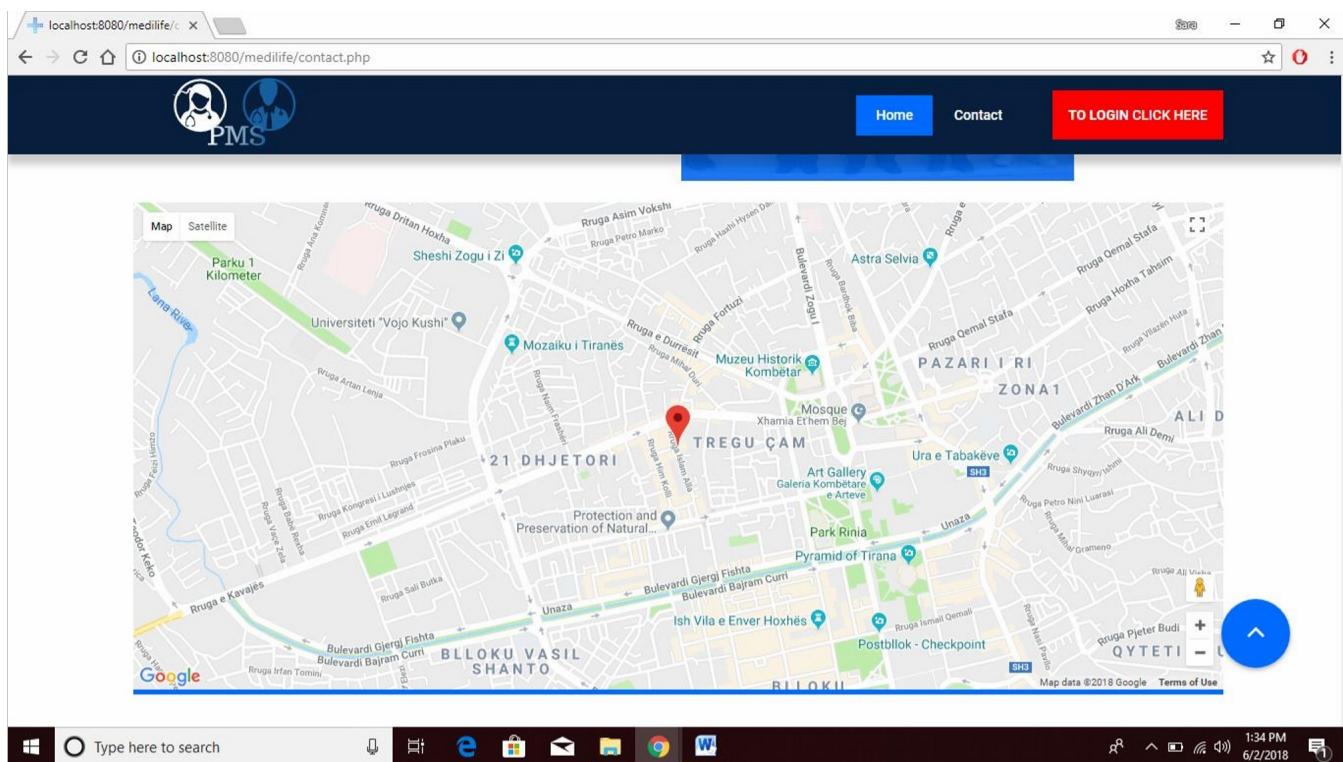
This screenshot continues the PMS Documentation home page. It features a collage of four images showing medical staff and patients. Below the collage, a large blue section contains a white smartphone icon with a stethoscope. To its right, the text "Tirane, Albania" is displayed, followed by email and phone number details: "Email: medicalcenteratest18@gmail.com", "Tel: 04 225 8174", and "Address: Islam Alla street, 50m from street entrance". A large white "112" is prominently displayed at the bottom left. The Windows taskbar at the bottom shows the date/time: 1:32 PM, 6/2/2018.

**PS\_03 – Home page (continue)**



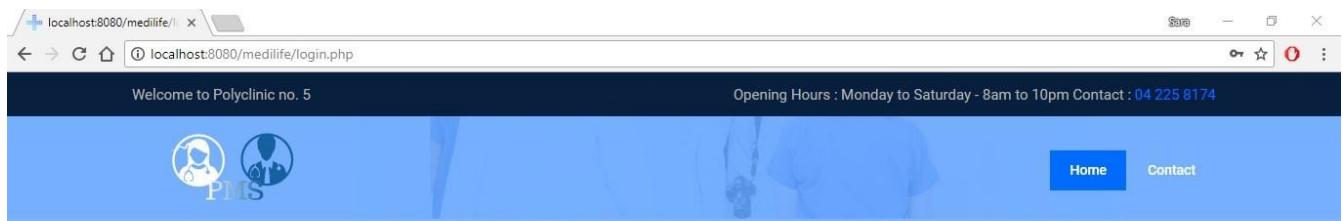
**PS\_04 – Contact page**

## PMS Documentation

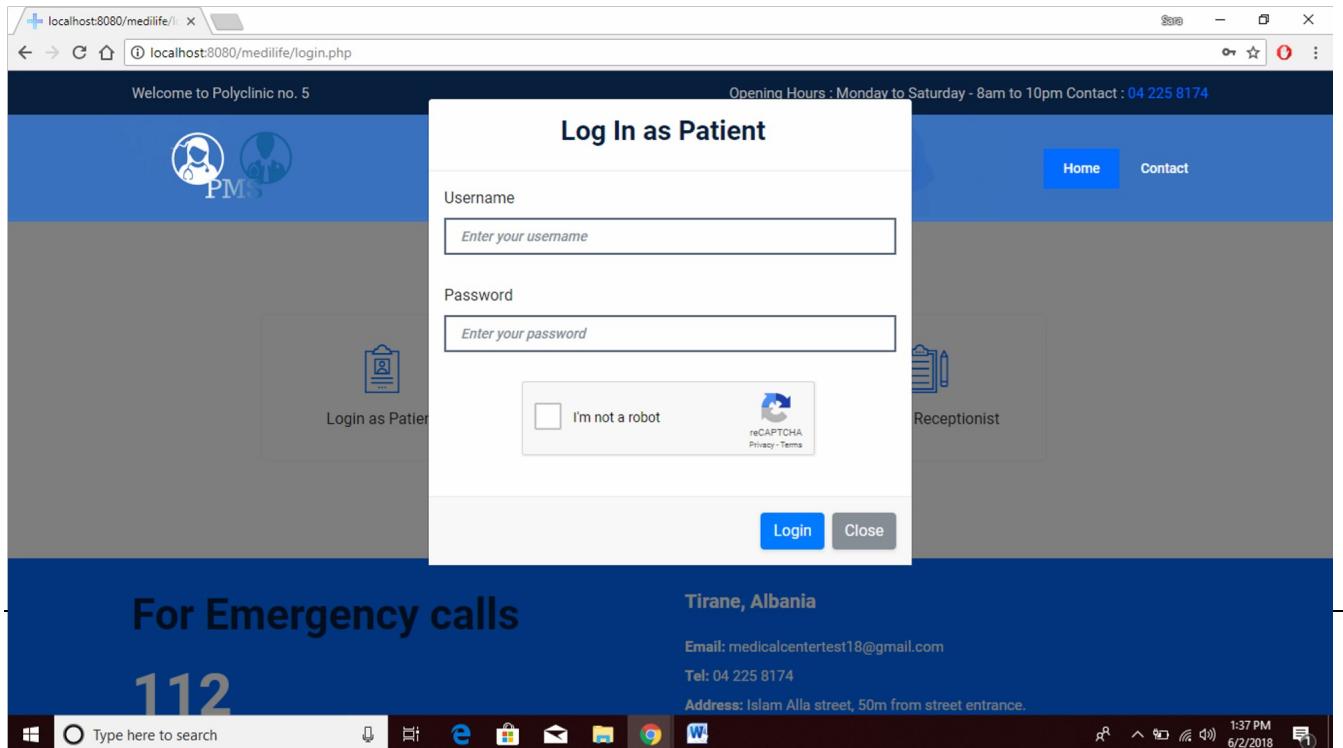


### PS\_05 – Contact page (continue)

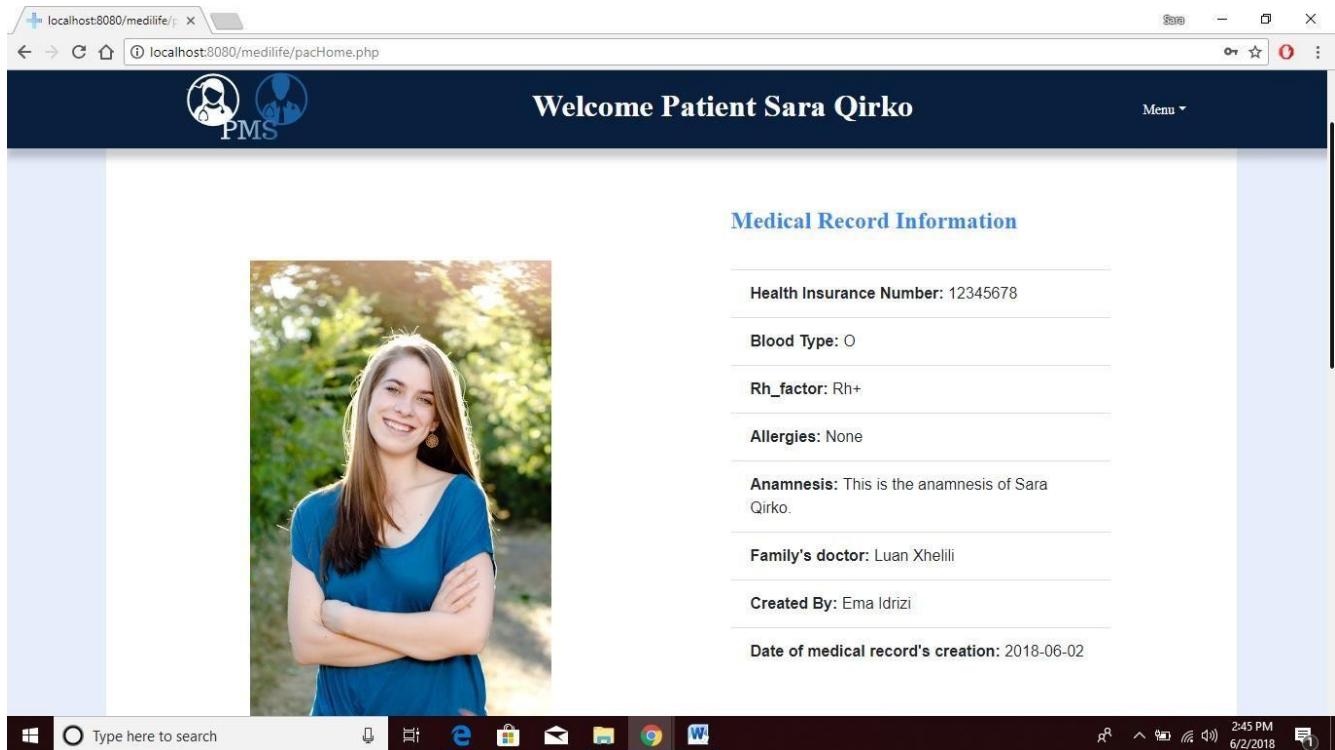
## PMS Documentation



### PS\_06 – Login page



**PS\_07 – Login form**



**PS\_08 – Patient's profile**

## PMS Documentation

The screenshot shows a web browser window for 'localhost:8080/medilife/pacRecords.php'. The title bar says 'localhost:8080/medilife/pacRecords.php'. The page header features a logo with a doctor and a patient, and the text 'Welcome Patient Sara Qirko'. A 'Menu' button is in the top right. The main content area is titled 'Examination Visit 1' and contains the following information:

Date Created: 2018-06-02  
Family's doctor: Luan Xhelili  
Complaints: Headache  
Diagnosis: Flu  
Medicines: Paracetamol  
Days off: 0  
Is this an infectious disease: No

A blue 'Download' button is centered below the text. Navigation buttons 'Prev' and 'Next' are on the left and right sides respectively. At the bottom of the screen is a taskbar with icons for File Explorer, Edge, File, Mail, and Word, along with a search bar and system status indicators.

### ***PS\_09 – Patient's medical visits***

## PMS Documentation

The screenshot shows a web browser window displaying a PDF document titled "Sara\_Qirko.pdf". The document is from "Polyclinic Nr.5" and contains patient information and a medical visit summary.

**Patient's information:**

- Patient: Sara Jorgo Qirko
- Personal Nr: J45678123K
- Health Insurance Nr: 12345678
- Blood Type: O
- Rh factor: Rh+
- Allergies: None

**Medical Visit:**

- Doctor: Luan Xhelli
- Patient's complaints:  
Headache
- Diagnosis:  
Flu
- Medicines:  
Paracetamol
- Days off: 0
- Is this disease infectious? Yes

Doctor's signature: \_\_\_\_\_

visit\_id: 34  
Date: 2018-06-02

## PS\_10 – Patient's downloaded visit

The screenshot shows a web browser window displaying a password change form. A modal dialog box is open, asking if the user wants to change the password.

Welcome to Polyclinic no. 5

localhost:8080 says

Are you sure you want to change the password?

OK Cancel

Monday to Saturday - 8am to 10pm Contact : 04 225 8174

Menu

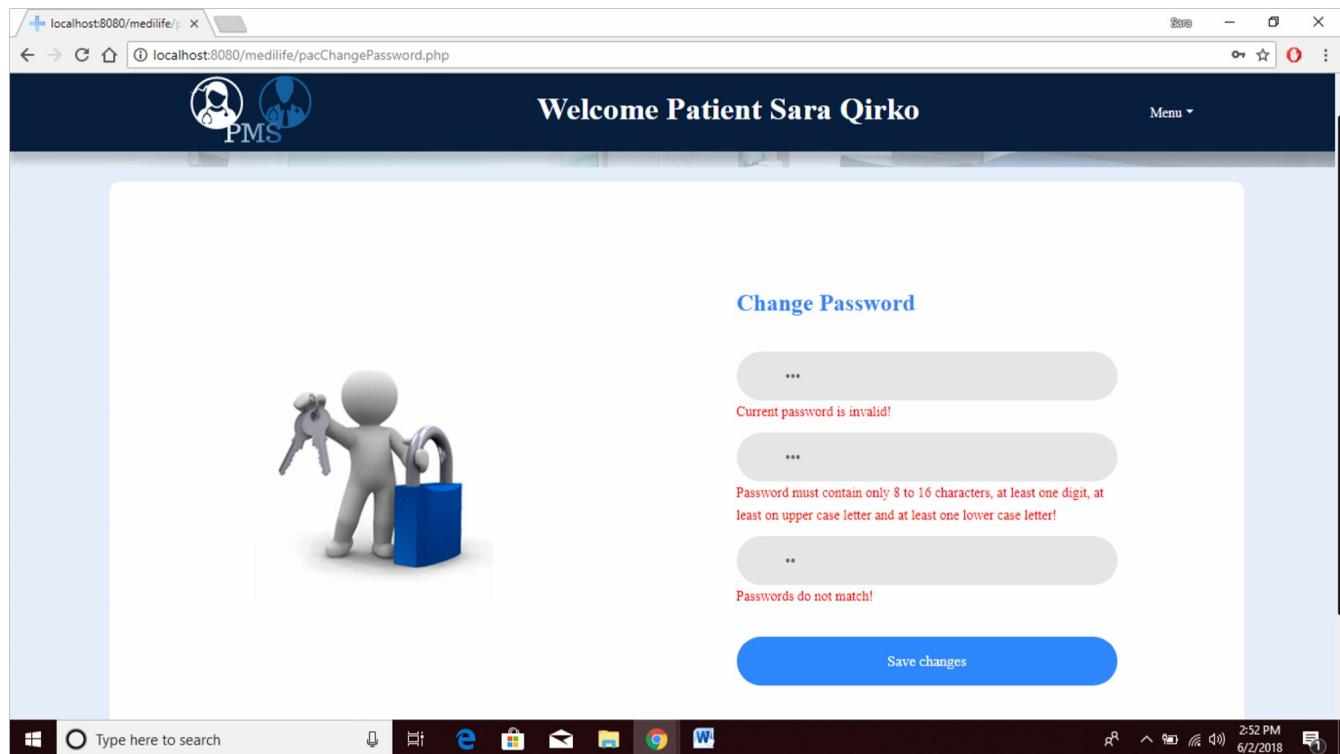
**Change Password**



.....  
.....  
.....

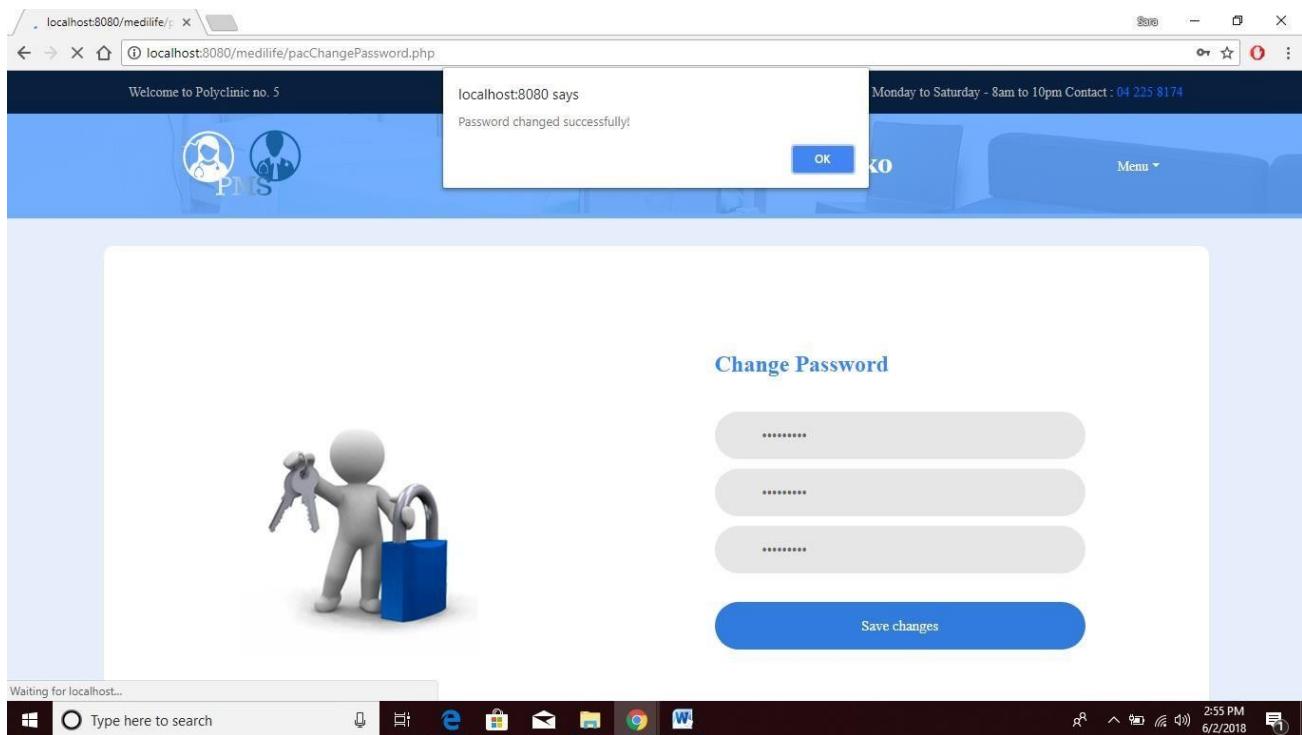
Save changes

**PS\_11 – Change Password**



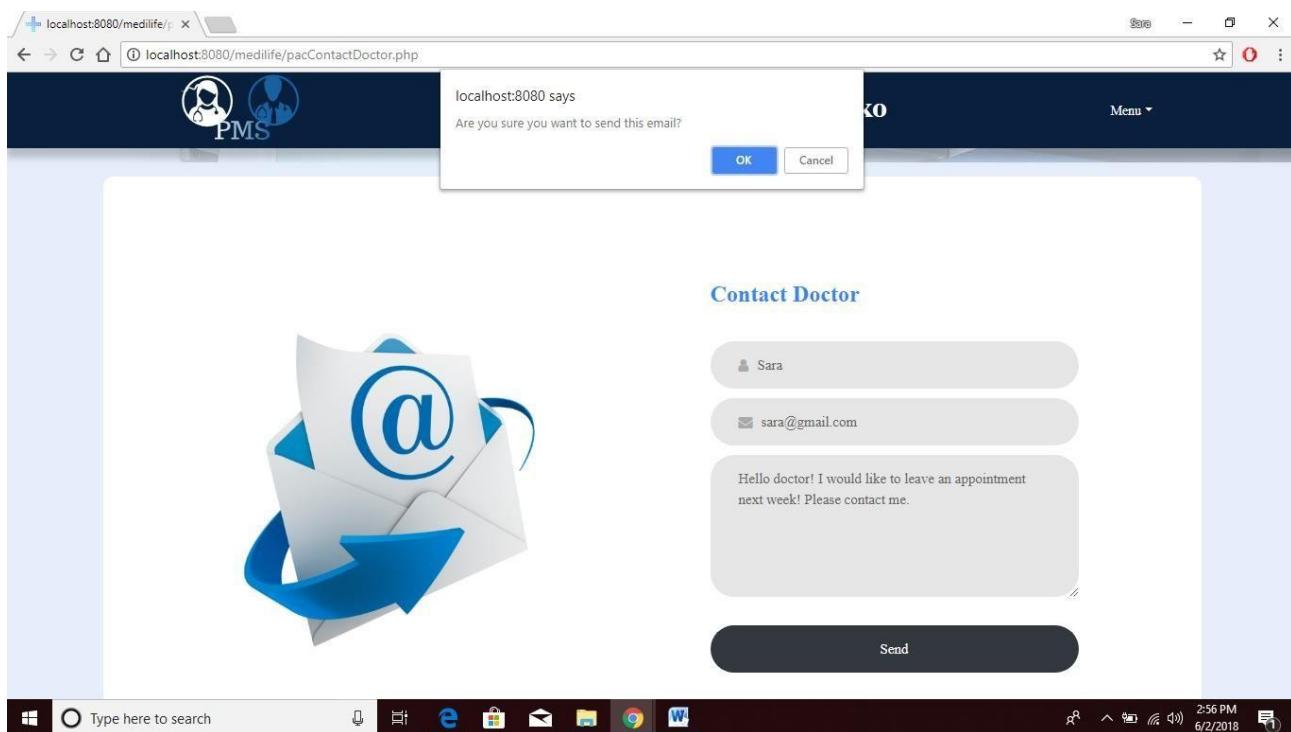
**PS\_12 – Change Password (incorrect validation)**

## PMS Documentation

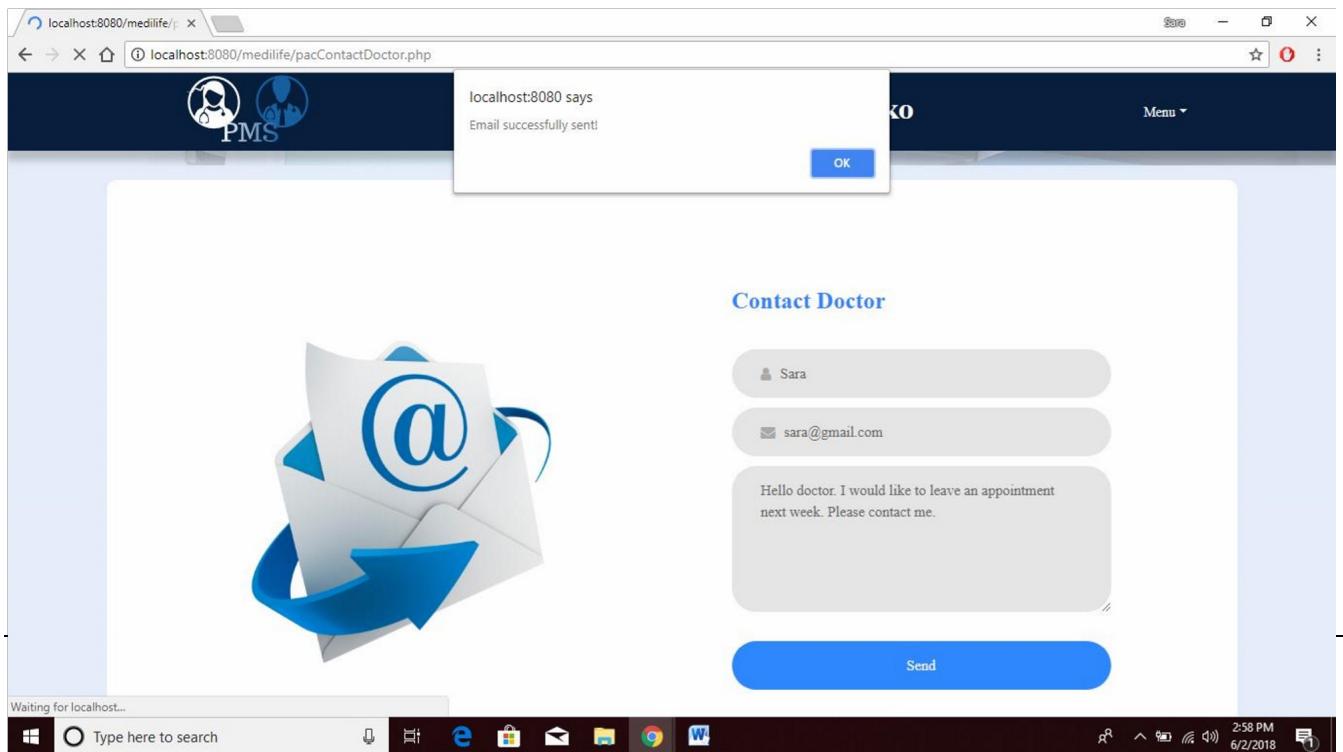


### ***PS\_13 – Change Password (correct validation)***

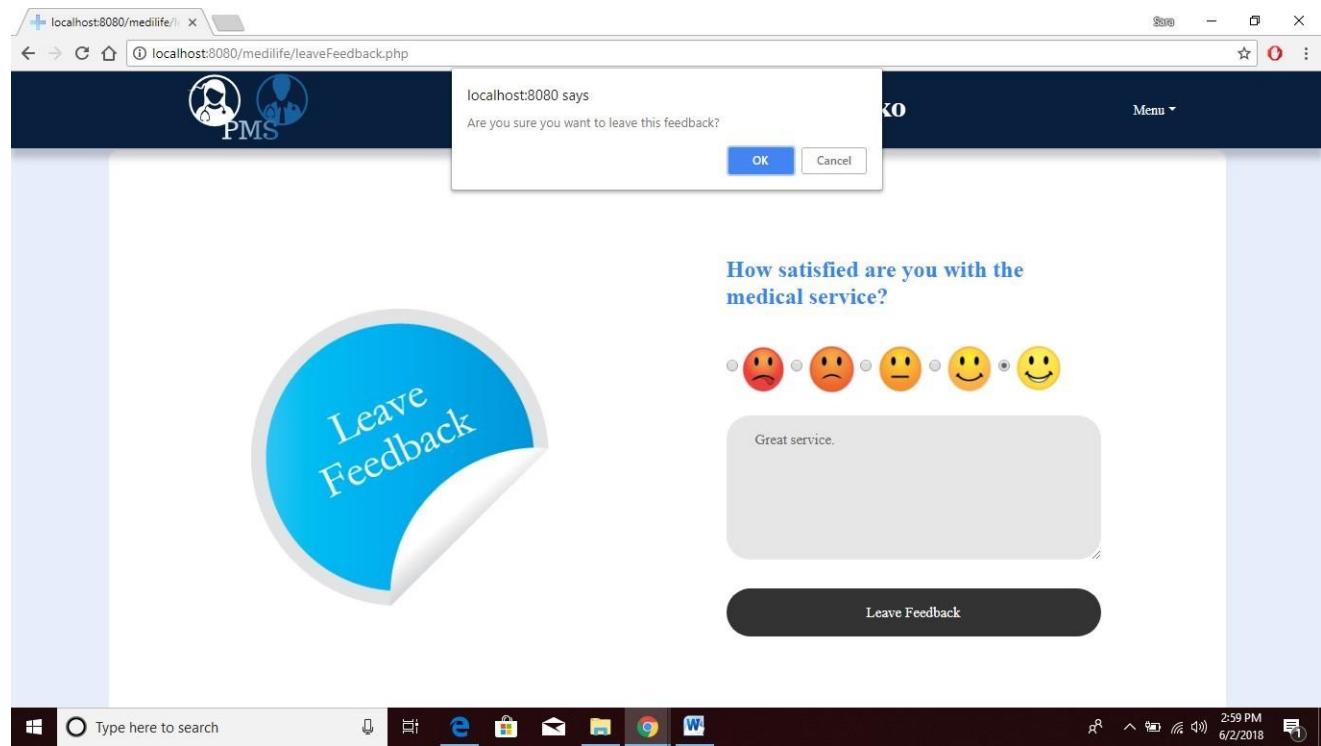
## PMS Documentation



### PS\_14 – Contact doctor

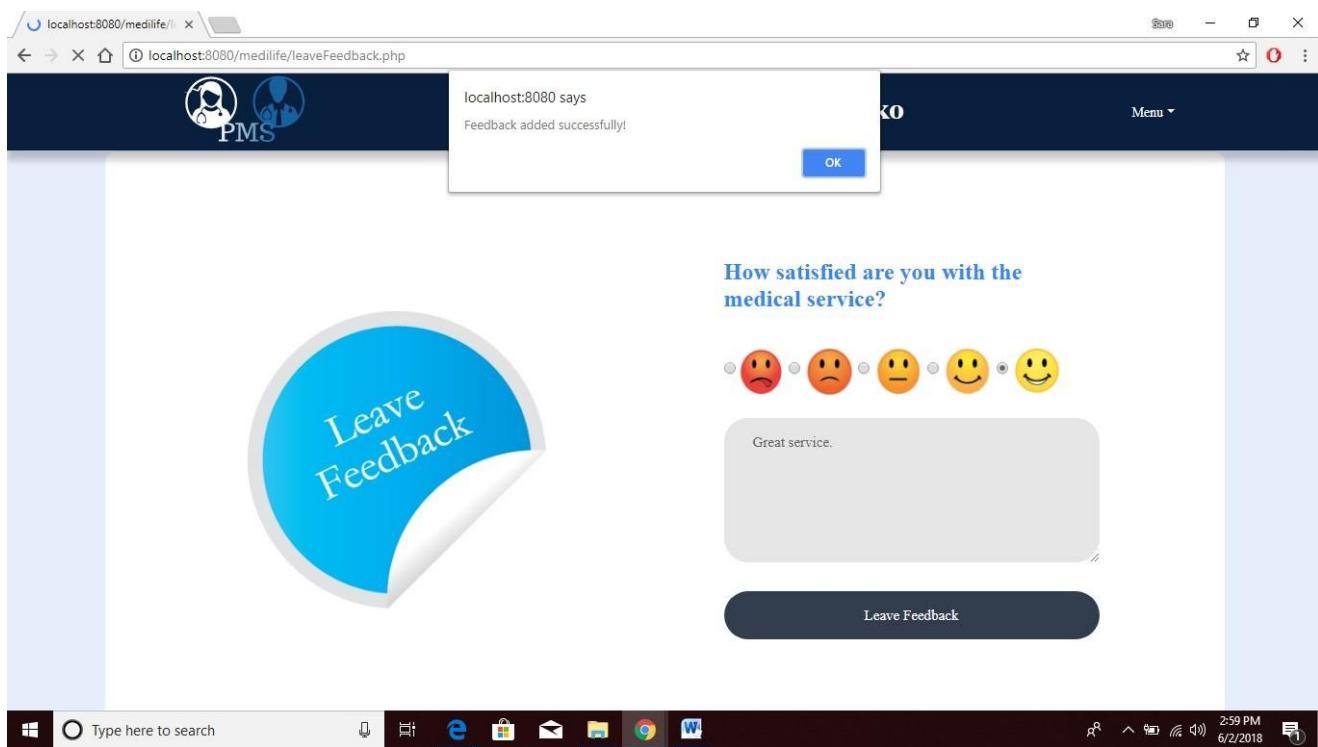


**PS\_15 – Email sent successfully**



**PS\_16 – Leave feedback**

## PMS Documentation



**PS\_17 – Feedback added successfully**

A screenshot of a web browser window titled "localhost:8080/medilife/docHome.php". The header says "Welcome Doctor Luan Xhelili". The left sidebar shows "Personal Information" with fields for Name (Luan), Father's name (Sokol), Surname (Xhelili), Personal ID (J34567812K), Gender (M), Phone (0692209120), Birthdate (1957-01-22), and Birthplace (Vlore). The main content area shows a "Waiting list" table:

ID	First name	Father's name	Last name	Birthdate	Personal no.	Action
1	Sara	Jorgo	Qirko	1996-12-12	J45678123K	<a href="#">Visit profile</a> <a href="#">Create Visit</a>

The Windows taskbar at the bottom shows various icons and the date/time as 6/2/2018 3:02 PM.

**PS\_18 – Doctor's profile**

The screenshot shows a web browser window with the URL [localhost:8080/medilife/docViewPacProfile.php](http://localhost:8080/medilife/docViewPacProfile.php). The page title is "Welcome Doctor Luan Xhelili". On the left, there is a placeholder image for a patient profile with the text "Personal Information" below it. On the right, under "Medical Record Information", there are several fields: "Health Insurance Number: 12345678", "Blood Type: O", "Rh\_factor: Rh+", "Allergies: None", "Anamnesis: This is the anamnesis of Sara Qirko.", "Family's doctor: Luan Xhelili", and "Created By: Ema Idrizi". A blue button labeled "View Examinations" is at the bottom. The browser interface includes a search bar, taskbar icons, and system status indicators.

**PS\_19 – Doctor views patient's profile**

## PMS Documentation

The screenshot shows a web browser window for 'localhost:8080/medilife/docViewExaminations.php'. The title bar says 'localhost:8080/medilife/docViewExaminations.php'. The page header features a logo with a doctor icon and the text 'Welcome Doctor Luan Xhelili' and 'Menu'. Below the header, the main content area is titled 'Examination Visit 1'. It displays the following information:  
Date Created: 2018-06-02  
Family's doctor: Luan Xhelili  
Complaints: Headache  
Diagnosis: Flu  
Medicines: Paracetamol  
Days off: 0  
Is this an infectious disease: No

At the bottom of the content area is a blue 'Download' button. Navigation buttons 'Prev' and 'Next' are located on the left and right sides respectively. The bottom of the screen shows a Windows taskbar with icons for File Explorer, Edge, Store, Mail, Photos, Google Chrome, and Word, along with system status icons.

### ***PS\_20 – Doctor views patient's examinations***

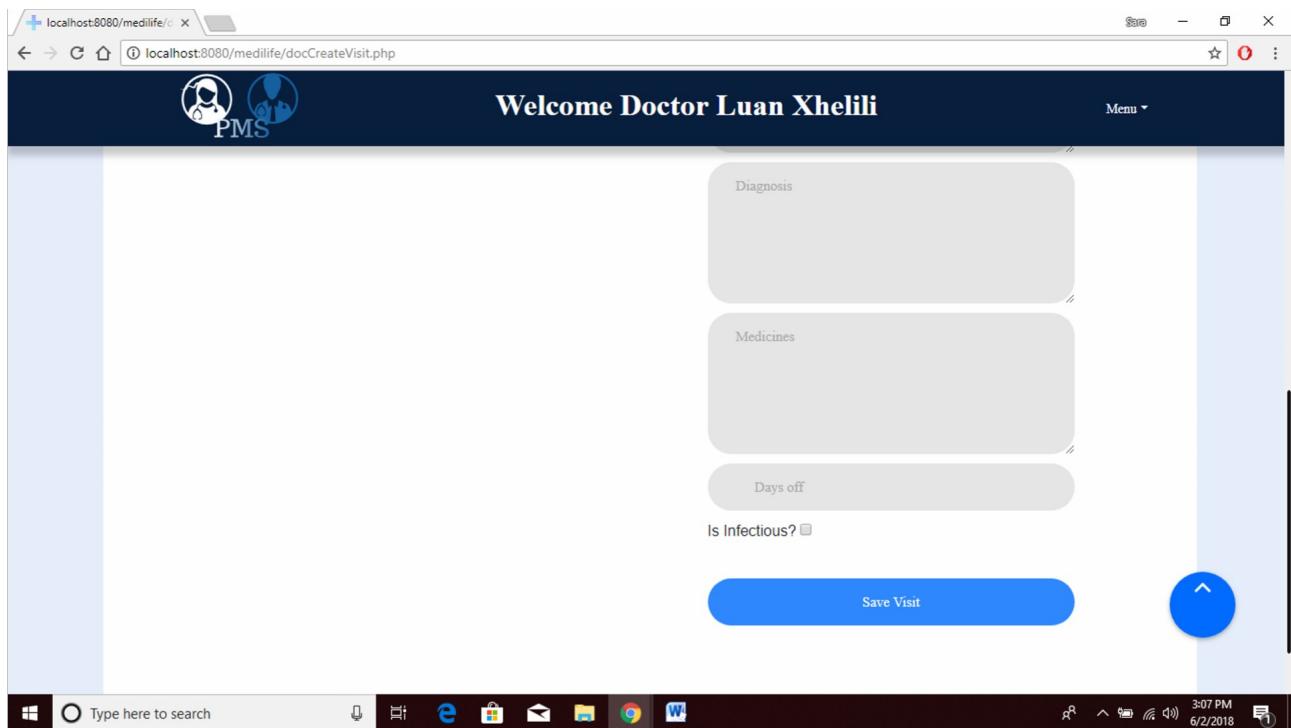
***(Download creates a PDF file same as the previous one)***

## PMS Documentation

The screenshot shows a Windows desktop with a web browser window open to [localhost:8080/medilife/docCreateVisit.php](http://localhost:8080/medilife/docCreateVisit.php). The browser title bar says "localhost:8080/medilife/". The main content area is titled "Welcome Doctor Luan Xhelili". On the left, there's a silhouette icon of a doctor examining a patient. The right side contains a form for creating a visit, with fields for Name (Sara), Father's Name (Jorgo), Surname (Qirko), Gender (F), Birthdate (1996-12-12), Doctor Name (Luan), and Doctor Surname (Xhelili). The browser status bar shows "Type here to search" and the date/time "6/2/2018 3:07 PM".

**PS\_21 – Doctor creates visit**

## PMS Documentation



### ***PS\_22 – Doctor creates visit (continue)***

***(When saving visit, a PDF file is created with the same format as the previous one, and that patient is removed from the ‘Waiting to be visited’ list)***

## PMS Documentation

The screenshot shows a web browser window for a medical system named "PMS". The title bar indicates the URL is [localhost:8080/medilife/docHome.php](http://localhost:8080/medilife/docHome.php). The page header includes a logo with two stylized figures, the text "Welcome to Polyclinic no. 5", "Opening Hours : Monday to Saturday - 8am to 10pm Contact : 04 225 8174", and a "Menu" button.

The main content area features a large blue banner with the text "Welcome Doctor Luan Xhelili". Below this, there are two sections: "Personal Information" on the left and "Waiting list" on the right.

**Personal Information:**

- Name:** Luan
- Father's name:** Sokol
- Surname:** Xhelili
- Personal ID:** J34567812K

**Waiting list:**

ID	First name	Father's name	Last name	Birthdate	Personal no.	Action
There are no patients waiting to be visited!						

The bottom of the screen shows a Windows taskbar with icons for File Explorer, Edge, Start, Task View, Mail, Photos, Google Chrome, and Word. The system tray shows the date as 6/2/2018 and the time as 3:09 PM.

**PS\_23 – No one is waiting to be visited**

## PMS Documentation

Sara\_Qirko.pdf

Welcome Doctor Luan Xhelili

Menu ▾

Patients' list

Search a name...

ID	Full name	Birthdate	Personal no.	Action
1	Sara Jorgo Qirko	1996-12-12	J45678123K	<a href="#">Visit profile</a>
2	Ilir Robert Alia	1956-07-01	J13467852K	<a href="#">Visit profile</a>

3:11 PM 6/2/2018

### PS\_24 – Doctor's patients list

localhost:8080/medilife/viewStatistics.php

Welcome Doctor Luan Xhelili

Menu ▾

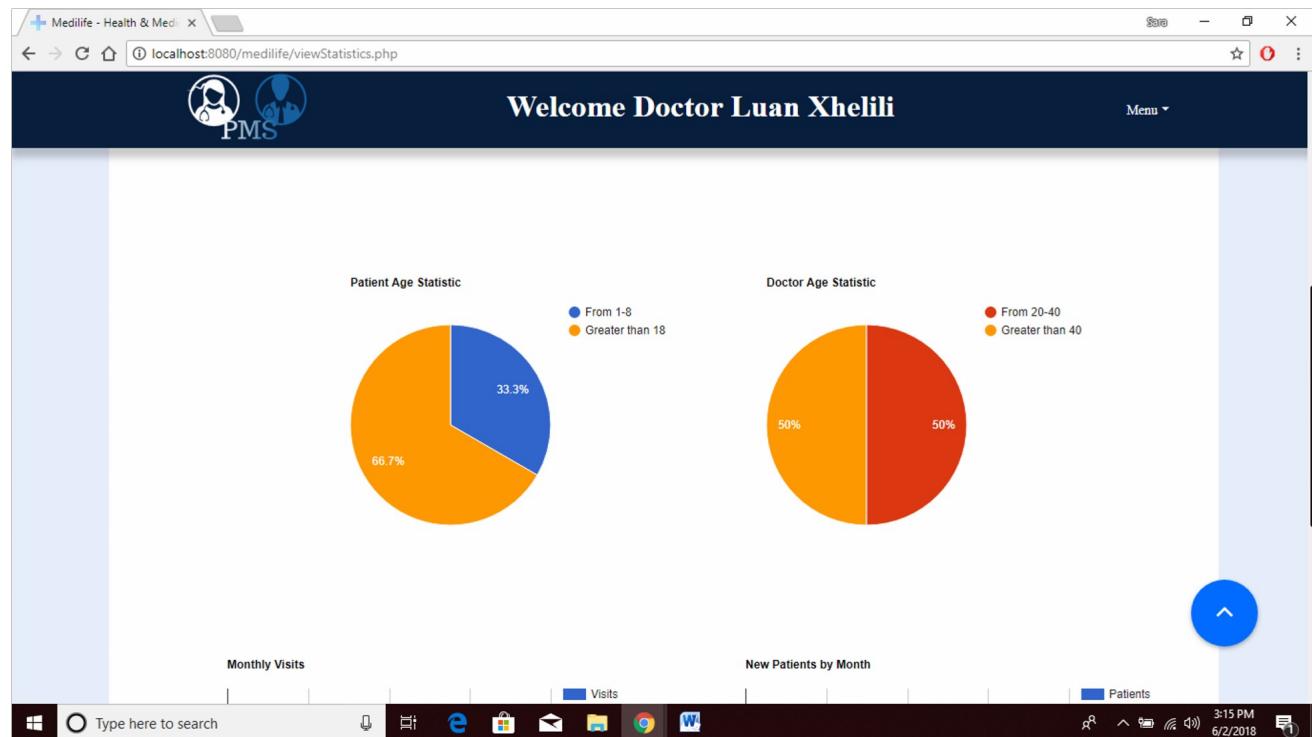
Statistics

Patients' Gender

Doctors' Gender

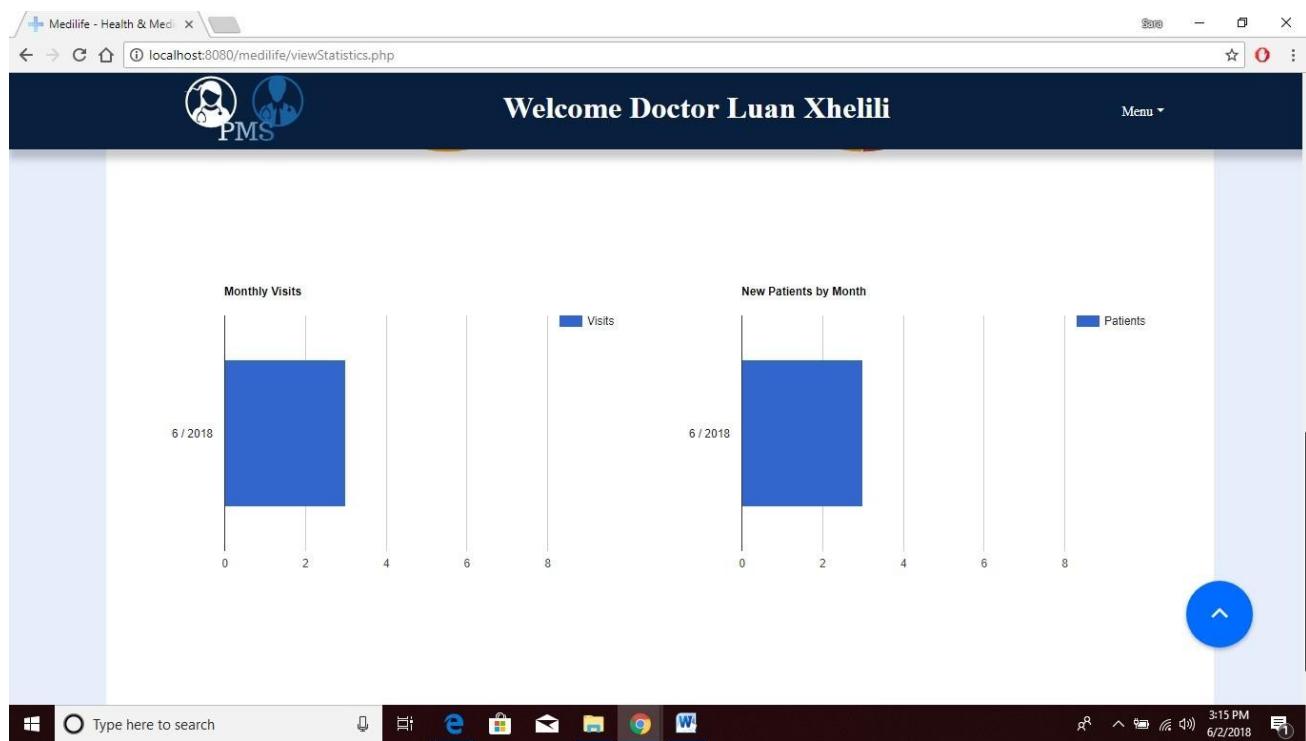
3:14 PM 6/2/2018

**PS\_25 – Statistics**



**PS\_26 – Statistics (continue)**

## PMS Documentation



### PS\_27 – Statistics (continue)

## PMS Documentation

Welcome to Polyclinic no. 5  
Opening Hours : Monday to Saturday - 8am to 10pm Contact : 04 225 8174

Welcome Receptionist Ema Idrizi [LOGOUT](#)

My profile [Patients' list](#) [Add new patient](#)

[Change password](#) [Doctors' list](#) [Add new doctor](#)



### PS\_28 – Receptionist's home page

Welcome Receptionist Ema Idrizi [Home](#) [LOGOUT](#)

Personal Information

Name: Ema  
Surname: Idrizi  
Birthdate: 1975-10-10  
Birthplace:  
Gender: F  
Father's name: Elton  
Personal number: B12345678X  
Academic Degree: Phd  
University: Universiteti UFO  
Graduation Date: 2001-07-02

**PS\_29 – Receptionist's profile**

Welcome to Polyclinic no. 5      Opening Hours : Monday to Saturday - 8am to 10pm Contact : 04 225 8174

Welcome Receptionist Ema Idrizi      Home      LOGOUT

Patients' list

ID	Full name	Birthdate	Personal no.	Action
1	Sara Jorgo Qirko	1996-12-12	J45678123K	Visit profile    Update    Allow visit    Export    Delete
2	Klea Miri Doka	2011-07-22	J67812345K	Visit profile    Update    Allow visit    Export    Delete
3	Ilir Robert Alia	1956-07-01	J13467852K	Visit profile    Update    Allow visit    Export    Delete

Type here to search      3:23 PM      6/2/2018

**PS\_30 – Polyclinic's patients list**

**(Visit profile is the same as before. Form there you can view the visits and download them.)**

## PMS Documentation

localhost:8080/medilife/ 8080  
localhost:8080/medilife/recUpdatePatient.php



Welcome Receptionist Ema Idrizi [Home](#) [LOGOUT](#)

### Update Patient



**Profile Photo**  
 No file chosen

**First name**  
Sara

**Father's name**  
Jorgo

**Last name**  
Qirko

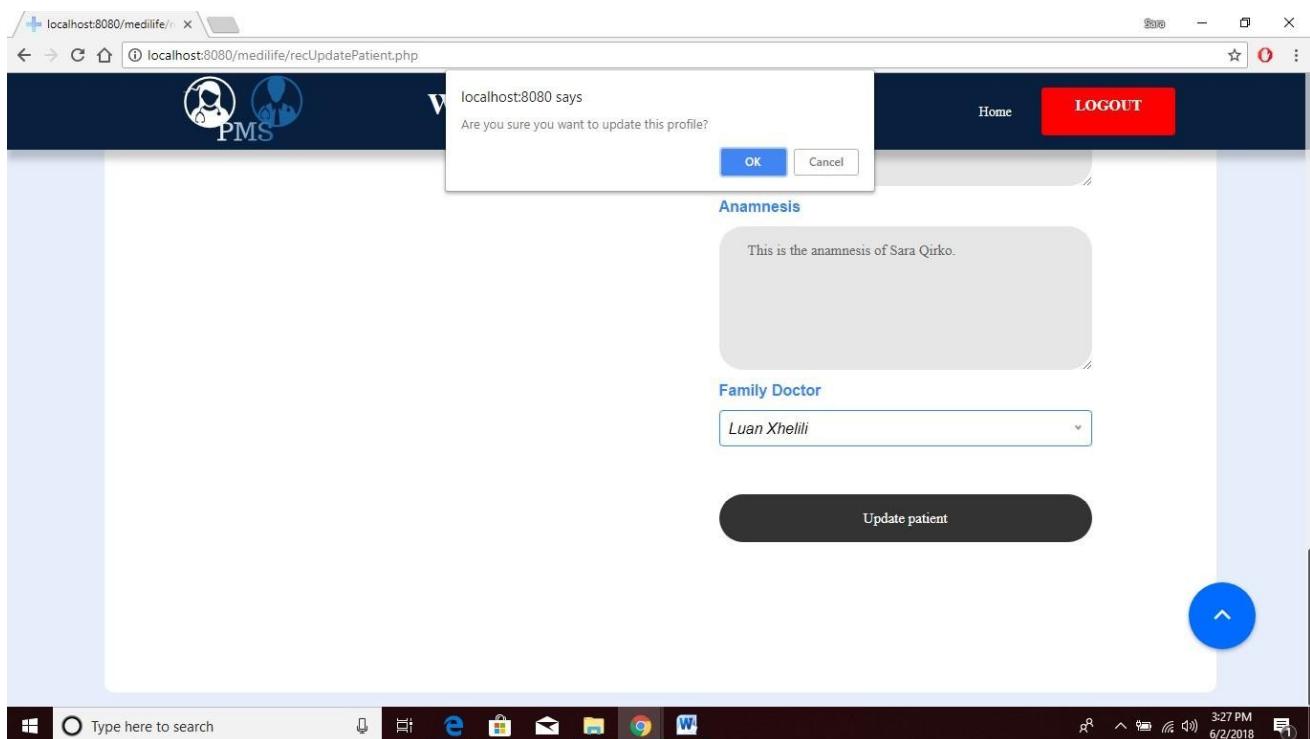
**Personal number**  
J45678123K

**GENDER**  male  female

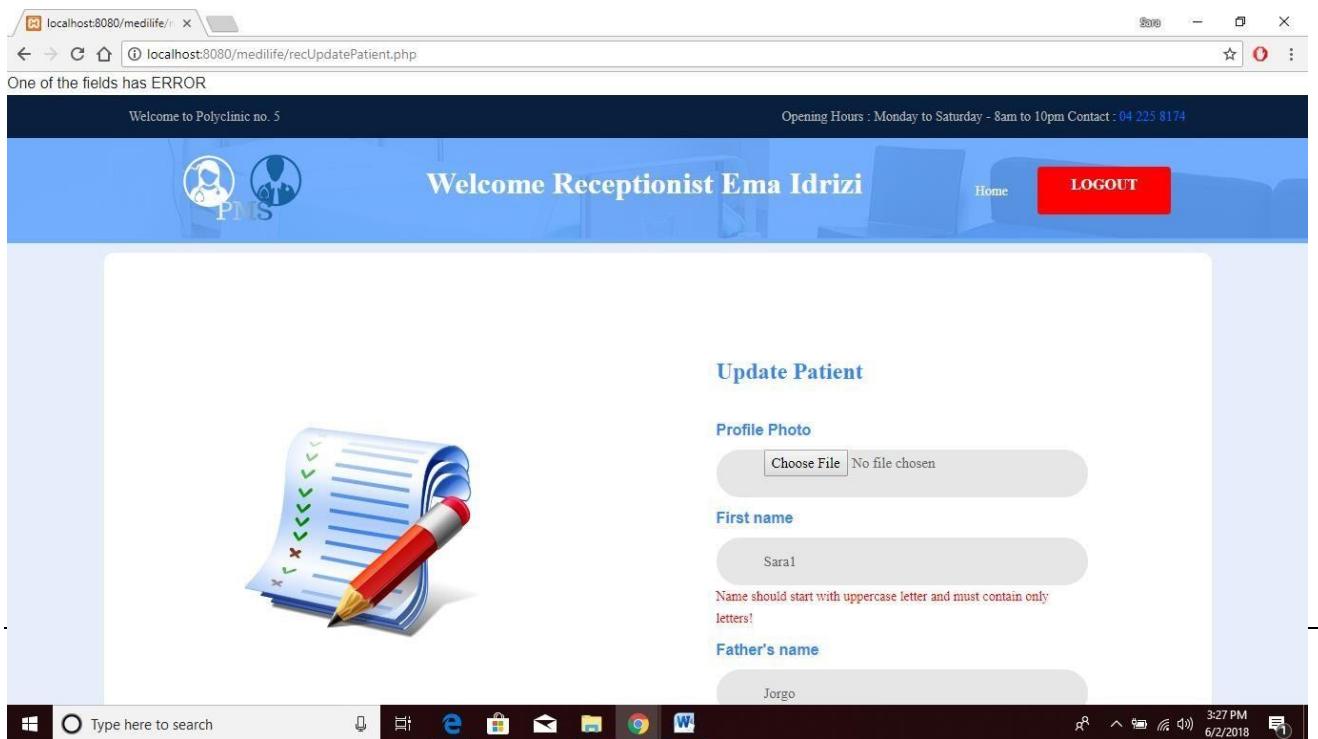
Type here to search 3:26 PM 6/2/2018

### PS\_31 – Update patient form

## PMS Documentation

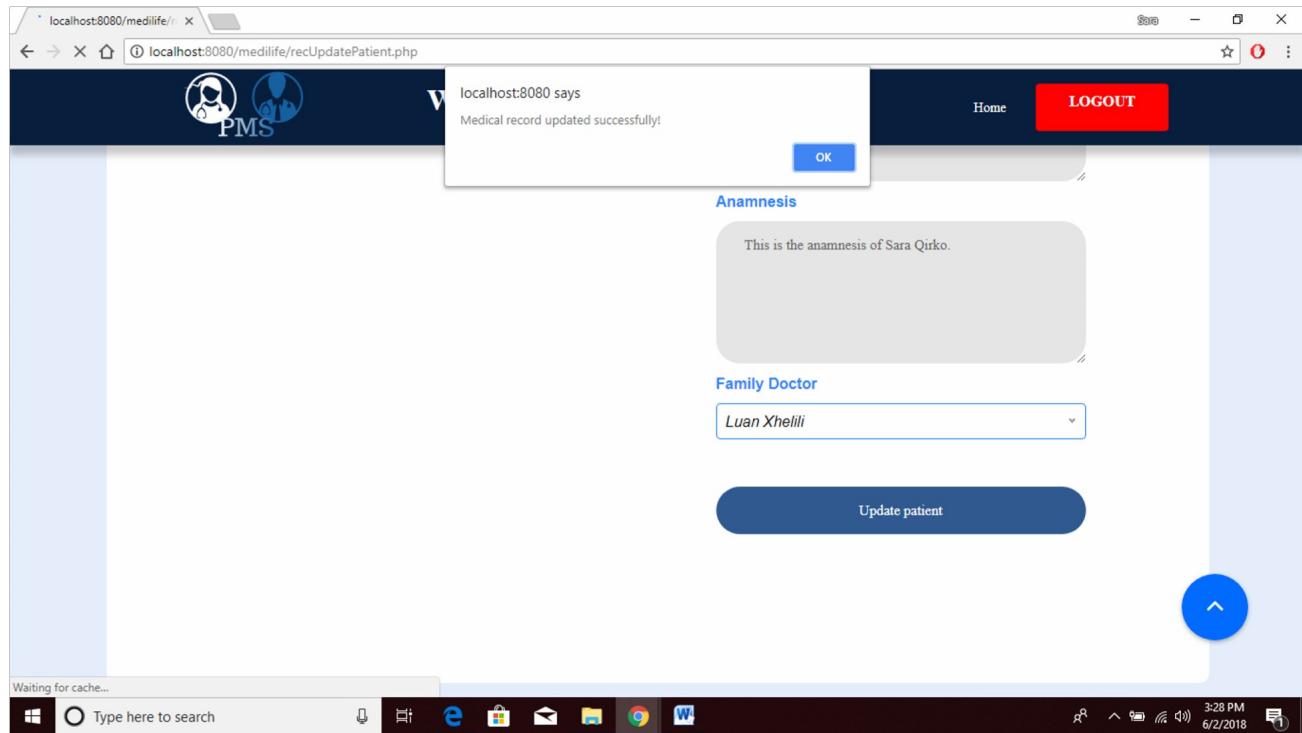


### PS\_32 – Update confirmation



**PMS Documentation**

**PS\_33 – Update patient (incorrect validation)**



**PS\_34 – Update patient (correct validation)**

## PMS Documentation

The screenshot shows a web application for a medical clinic. At the top, there's a header bar with the text "Welcome to Polyclinic no. 5", the IP address "localhost:8080", and a "Logout" button. A central modal dialog box from "localhost:8080 says" asks, "Are you sure you want to allow this visit?", with "OK" and "Cancel" buttons. Below the header, there's a logo with two stylized figures and the letters "PMS". The main content area is titled "Patients' list" and contains a search bar with placeholder text "Search a name...". A table lists three patients:

ID	Full name	Birthdate	Personal no.	Action			
1	Sara Jorgo Qirko	1996-12-12	J45678123K	Visit profile	Update	Allow visit	Export
2	Klea Miri Doka	2011-07-22	J67812345K	Visit profile	Update	Allow visit	Export
3	Ilir Robert Alia	1956-07-01	J13467852K	Visit profile	Update	Allow visit	Export

### ***PS\_35 – Allow visit confirmation***

## PMS Documentation

The screenshot shows a web browser window for 'localhost:8080/medilife/'. The title bar says 'localhost:8080/medilife/recAllowVisit.php'. The main content area displays a message box from 'localhost:8080' stating 'Visit allowed successfully' with an 'OK' button. The background shows a patient list table with three entries:

ID	Full name	Birthdate	Personal no.	Action	Action	Action	Action	
1	Sara Jorgo Qirko	1996-12-12	J45678123K	Visit profile	Update	Allow visit	Export	Delete
2	Klea Miri Doka	2011-07-22	J67812345K	Visit profile	Update	Allow visit	Export	Delete
3	Ilir Robert Alia	1956-07-01	J13467852K	Visit profile	Update	Allow visit	Export	Delete

The status bar at the bottom shows 'Type here to search' and system icons.

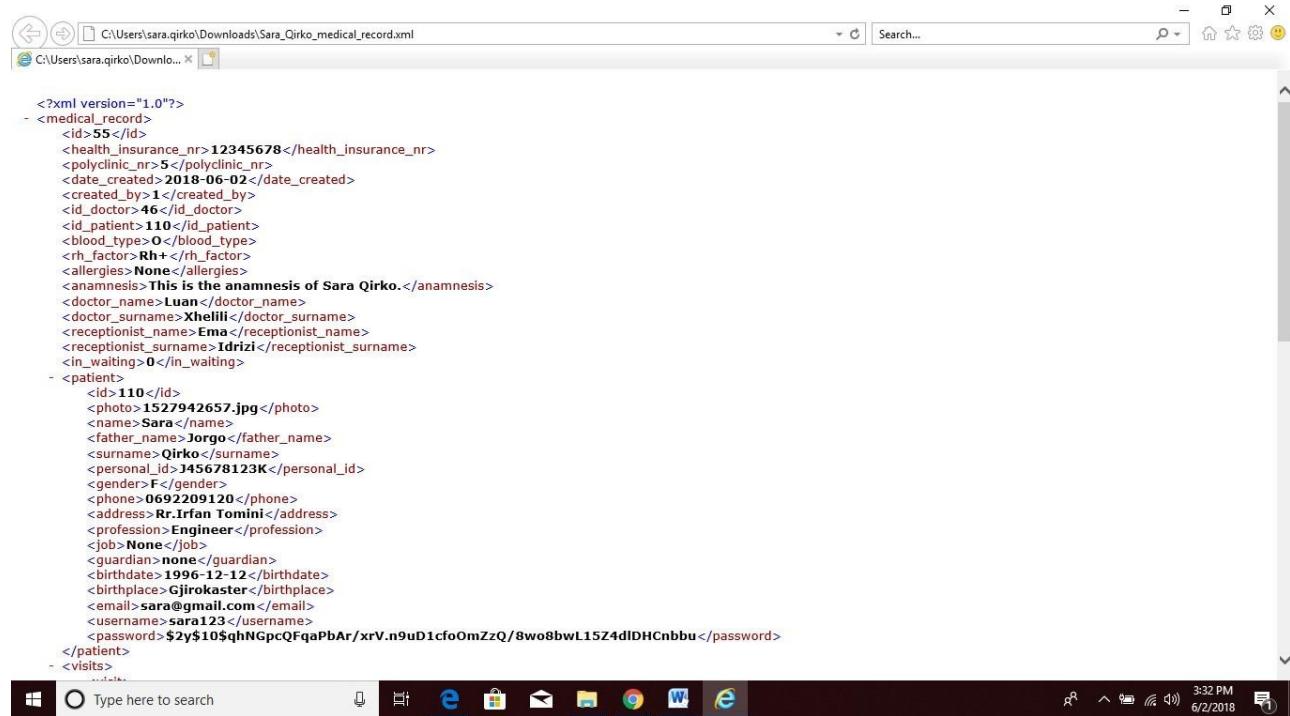
### PS\_36 – Visit allowed successfully

The screenshot shows a web browser window for 'localhost:8080/medilife/'. The title bar says 'localhost:8080/medilife/recPacList.php'. A confirmation dialog box from 'localhost:8080' asks 'Are you sure you want to export this patient?' with 'OK' and 'Cancel' buttons. The background shows a patient list table with three entries:

ID	Full name	Birthdate	Personal no.	Action	Action	Action	Action	
1	Sara Jorgo Qirko	1996-12-12	J45678123K	Visit profile	Update	Allow visit	Export	Delete
2	Klea Miri Doka	2011-07-22	J67812345K	Visit profile	Update	Allow visit	Export	Delete
3	Ilir Robert Alia	1956-07-01	J13467852K	Visit profile	Update	Allow visit	Export	Delete

The status bar at the bottom shows 'Type here to search' and system icons.

**PS\_37 – Export patient confirmation**



The screenshot shows a Microsoft Edge browser window with the following details:

- Address bar: C:\Users\sara.qirko\Downloads\Sara\_Qirko\_medical\_record.xml
- Content area:

```
<?xml version="1.0"?>
<medical_record>
  <id>55</id>
  <health_insurance_nr>12345678</health_insurance_nr>
  <polyclinic_nr>5</polyclinic_nr>
  <date_created>2018-06-02</date_created>
  <created_by>1</created_by>
  <id_doctor>46</id_doctor>
  <id_patient>110</id_patient>
  <blood_type>O</blood_type>
  <rh_factor>Rh+</rh_factor>
  <allergies>None</allergies>
  <anamnesis>This is the anamnesis of Sara Qirko.</anamnesis>
  <doctor_name>Luan</doctor_name>
  <doctor_surname>Xhelili</doctor_surname>
  <receptionist_name>Ema</receptionist_name>
  <receptionist_surname>Idrizi</receptionist_surname>
  <in_waiting>0</in_waiting>
<patient>
  <id>110</id>
  <photo>1527942657.jpg</photo>
  <name>Sara</name>
  <father_name>Jorgo</father_name>
  <surname>Qirko</surname>
  <personal_id>J45678123K</personal_id>
  <gender>F</gender>
  <phone>0692209120</phone>
  <address>Rr.Irfan Tomini</address>
  <profession>Engineer</profession>
  <job>None</job>
  <guardian>none</guardian>
  <birthdate>1996-12-12</birthdate>
  <birthplace>Gjirokaster</birthplace>
  <email>sara@gmail.com</email>
  <username>sara123</username>
  <password>$2y$10$qhNGpcQFqaPbAr/xrV.n9uD1cfoOmZzQ/8wo8bwL15Z4dIDHCnbbu</password>
</patient>
<visits>
```
- Bottom status bar: Type here to search, taskbar icons (File Explorer, Mail, Google Chrome, Word, Edge), system icons (Speaker, Volume, Battery, Network, Date/Time: 3:32 PM, 6/2/2018).

**PS\_38 – XML file format when confirming export**

## PMS Documentation

localhost:8080 says  
Are you sure you want to delete this patient?

**OK**   **Cancel**

Patients' list

ID	Full name	Birthdate	Personal no.	Action			
1	Sara Jorgo Qirko	1996-12-12	J45678123K	Visit profile	Update	Allow visit	Export
2	Klea Miri Doka	2011-07-22	J67812345K	Visit profile	Update	Allow visit	Export
3	Ilir Robert Alia	1956-07-01	J13467852K	Visit profile	Update	Allow visit	Export

### PS\_39 – Delete patient confirmation

(When confirmed, that patient is removed from the list)

Welcome to Polyclinic no. 5

Opening Hours : Monday to Saturday - 8am to 10pm Contact : 04 225 8174

Welcome Receptionist Ema Idrizi

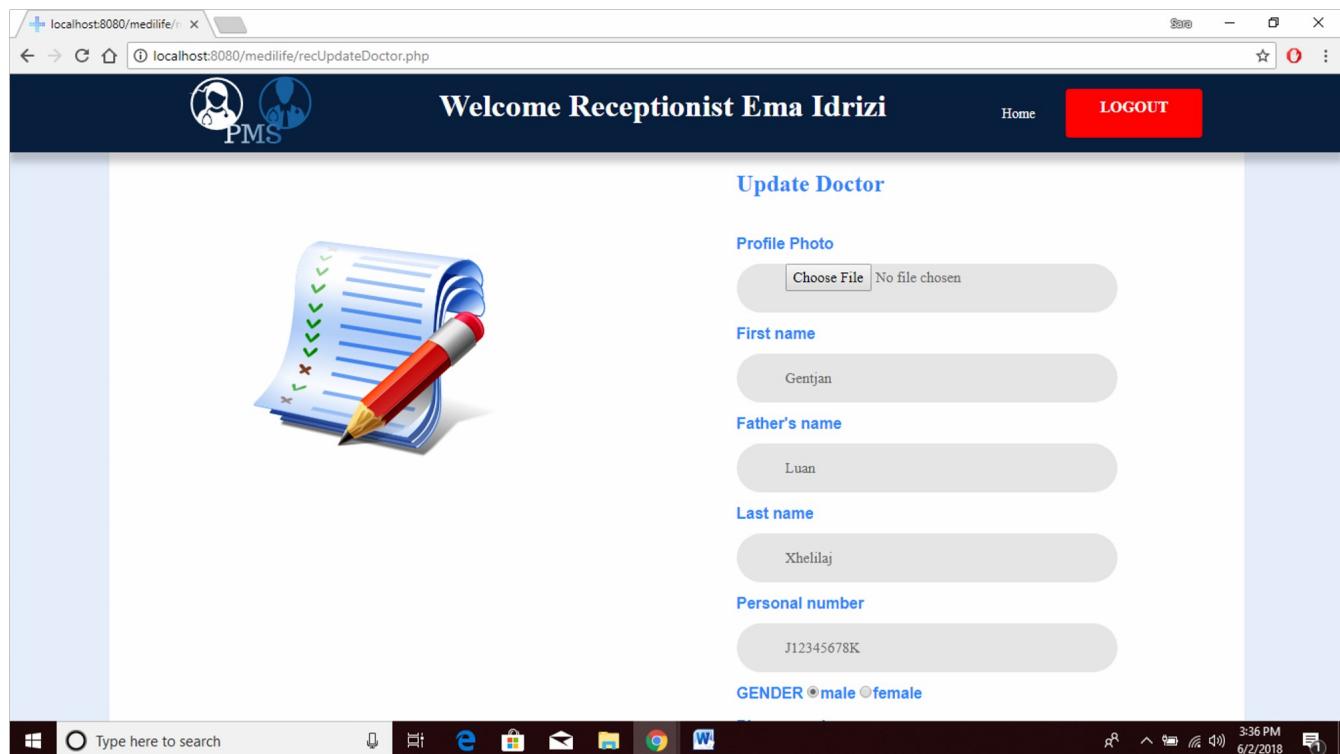
**Home**   **LOGOUT**

Doctors' list

ID	Full name	Birthdate	Personal no.	Action		
1	Gentjan Luan Xhelilaj	1983-07-01	J12345678K	Visit profile	Update	Delete
2	Majlinda Altin Baka	1988-02-09	J23456789K	Visit profile	Update	Delete
3	Luan Sokol Xhelili	1957-01-22	J34567812K	Visit profile	Update	Delete

**PS\_40 – Polyclinic's doctors list**

**(Visit profile is the same as before.)**



localhost:8080/medilife/... < > Home LOGOUT

Welcome Receptionist Ema Idrizi

Update Doctor

Profile Photo

Choose File No file chosen

First name

Gentjan

Father's name

Luan

Last name

Xhelilaj

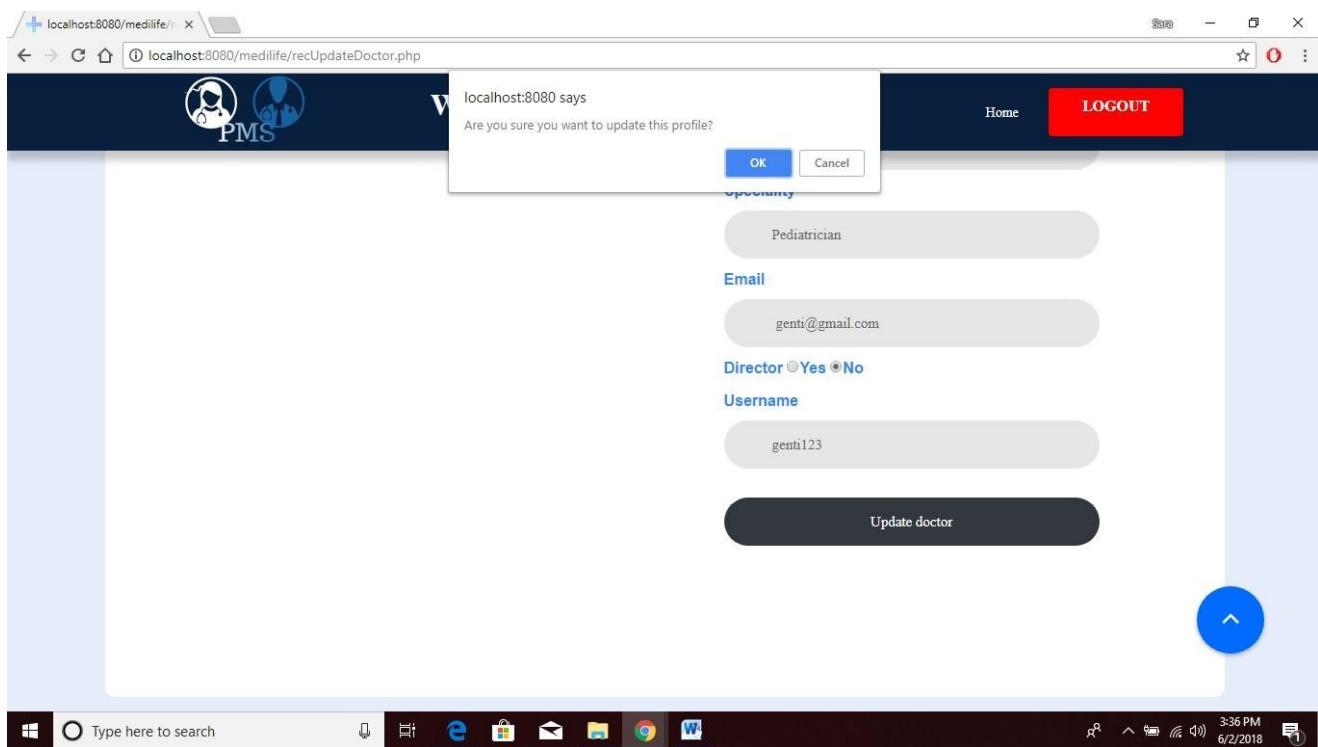
Personal number

J12345678K

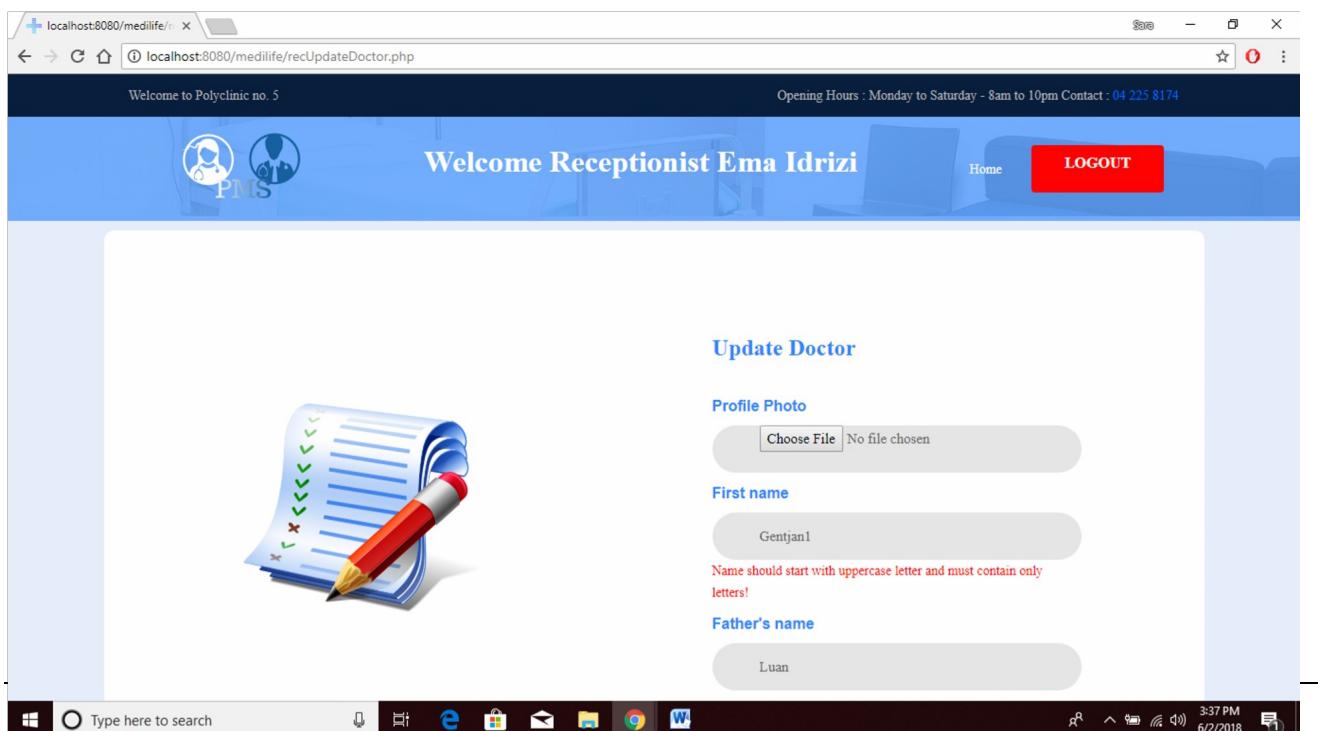
GENDER  male  female

**PS\_41 – Update doctor form**

## PMS Documentation

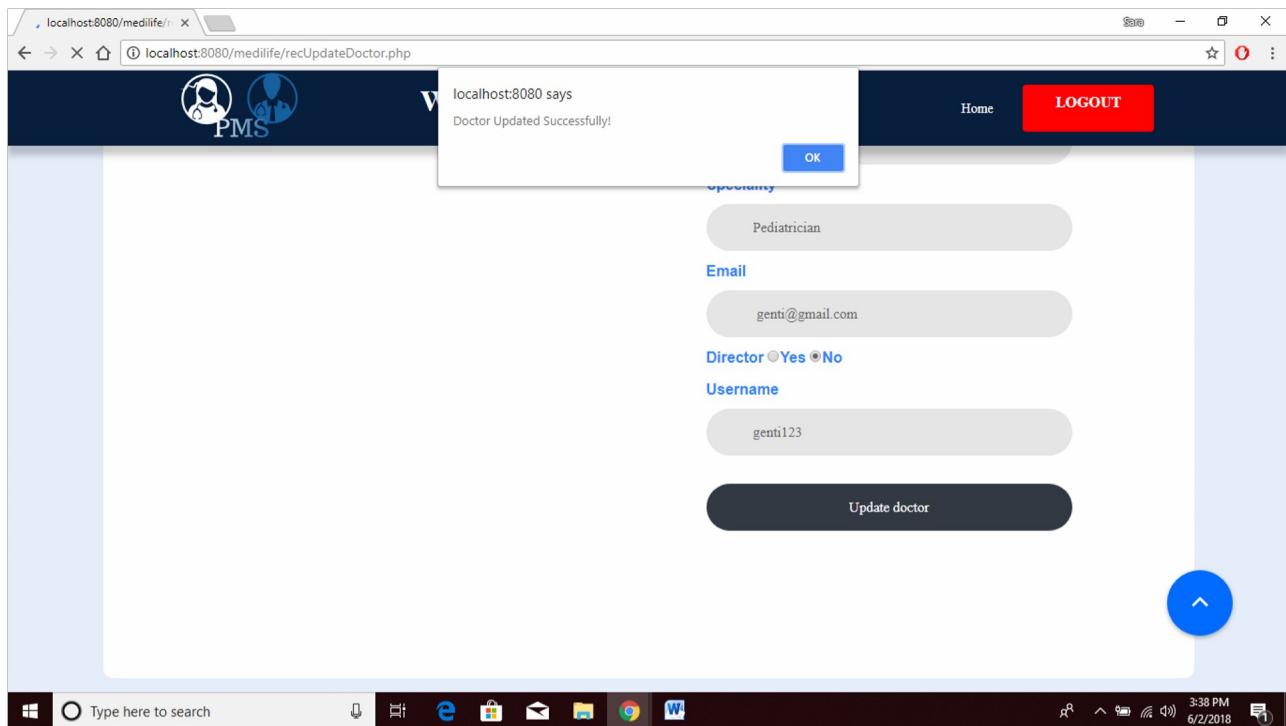


### PS\_42 – Update doctor confirmation



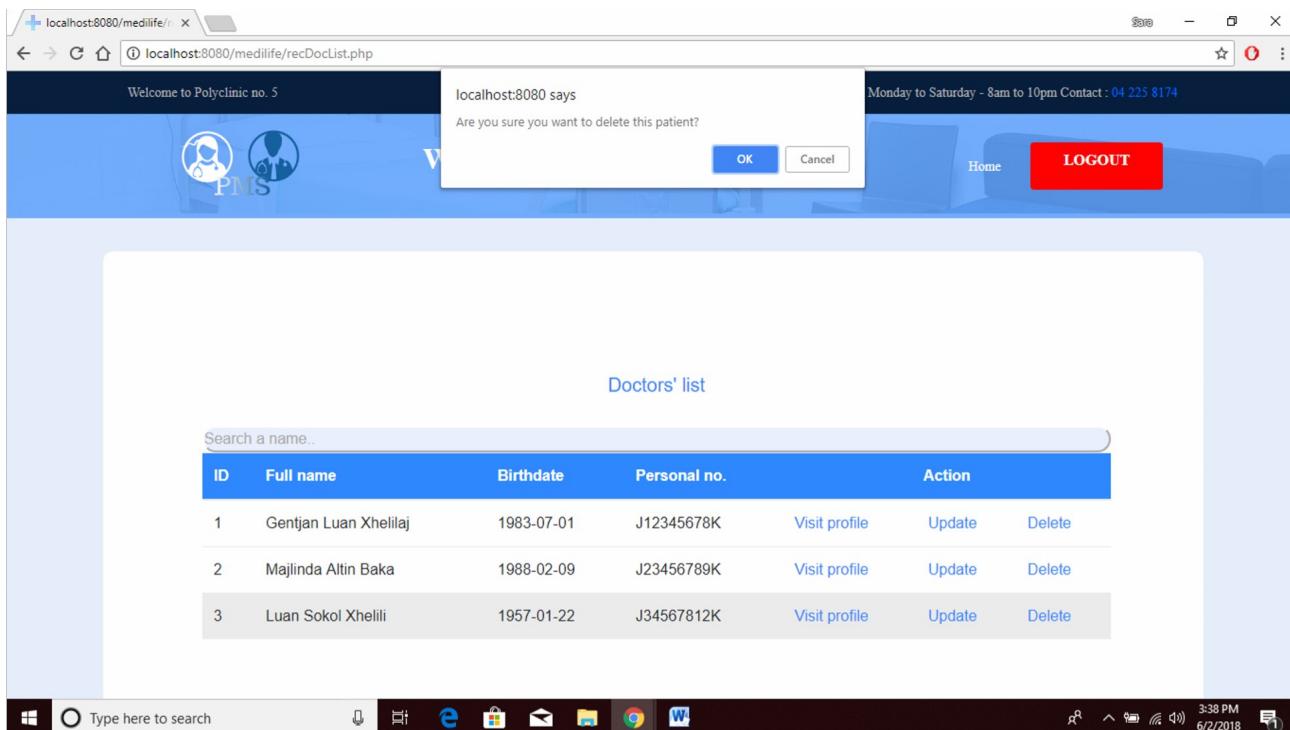
### PS\_43 – Update doctor (incorrect validation)

## PMS Documentation



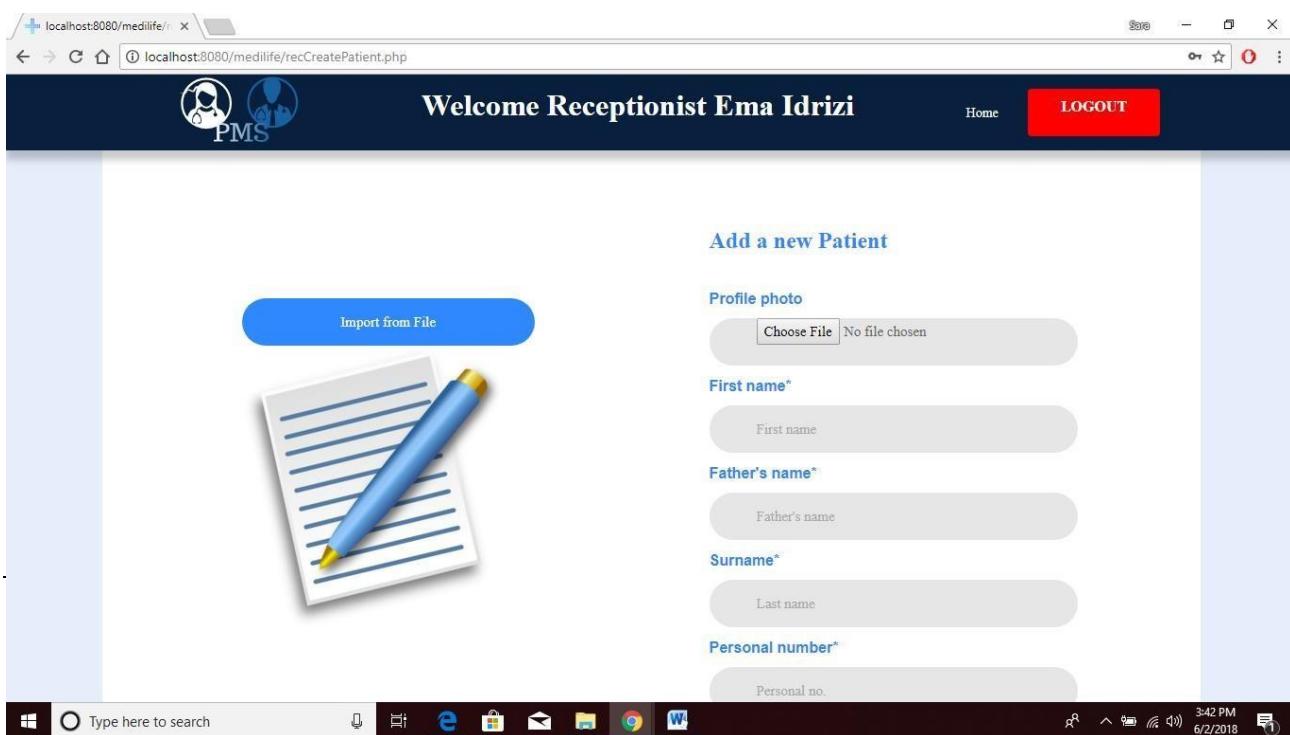
**PS\_44 – Update doctor (correct validation)**

## PMS Documentation

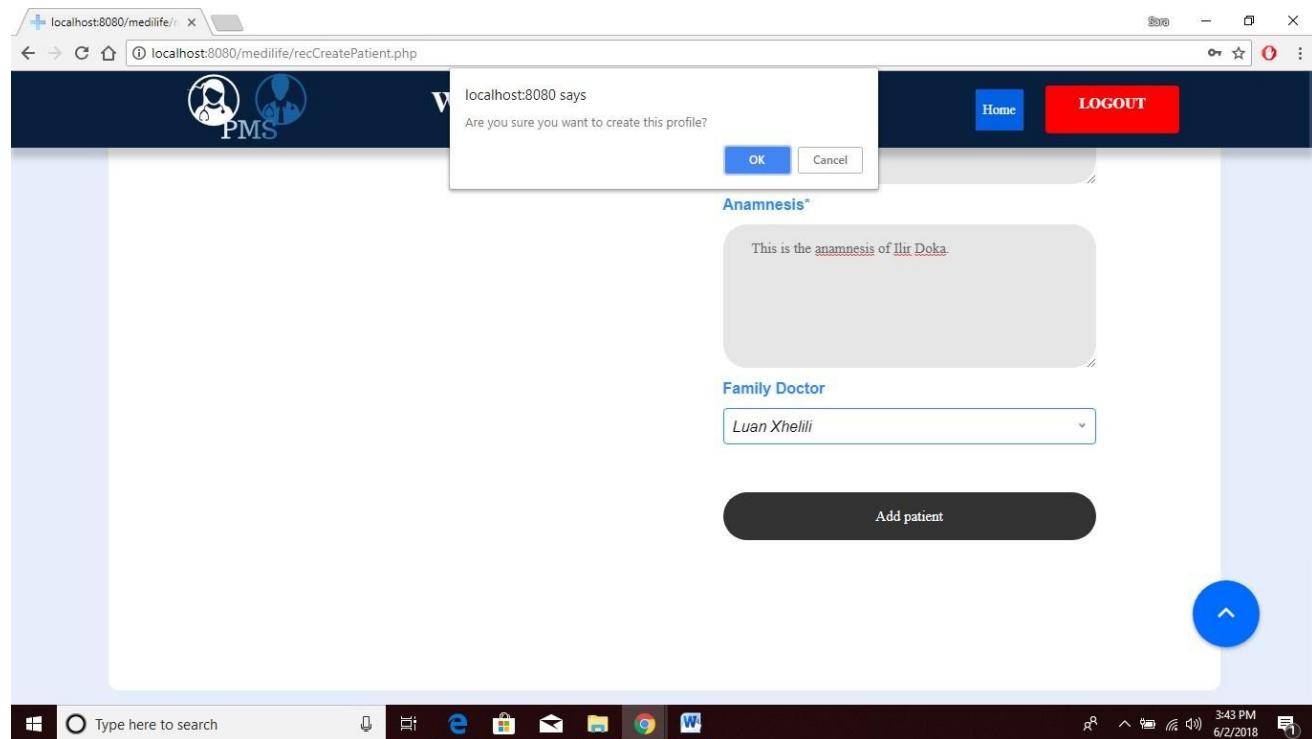


### PS\_45 – Delete doctor confirmation

(When confirmed, that doctor is removed from the list)



**PS\_46 – Add new patient form**



**PS\_47 – Add new patient (confirmation)**

## PMS Documentation

The screenshot shows a web browser window for 'localhost:8080/medilife/recCreatePatient.php'. The title bar says 'One of the fields has ERROR'. The header includes 'Welcome to Polyclinic no. 5', 'Opening Hours : Monday to Saturday - 8am to 10pm Contact : 04 225 8174', and a 'LOGOUT' button. The main content area is titled 'Welcome Receptionist Ema Idrizi'. It features a blue pencil icon and the text 'Add a new Patient'. A 'Profile photo' section has a placeholder 'Choose File' with 'No file chosen'. The 'First name\*' field contains 'Ilir 1' with an error message: 'Name should start with uppercase letter and must contain only letters!'. The 'Father's name\*' field contains 'Robert'. The bottom status bar shows a Windows taskbar with icons for search, file explorer, edge, store, mail, calendar, chrome, and word.

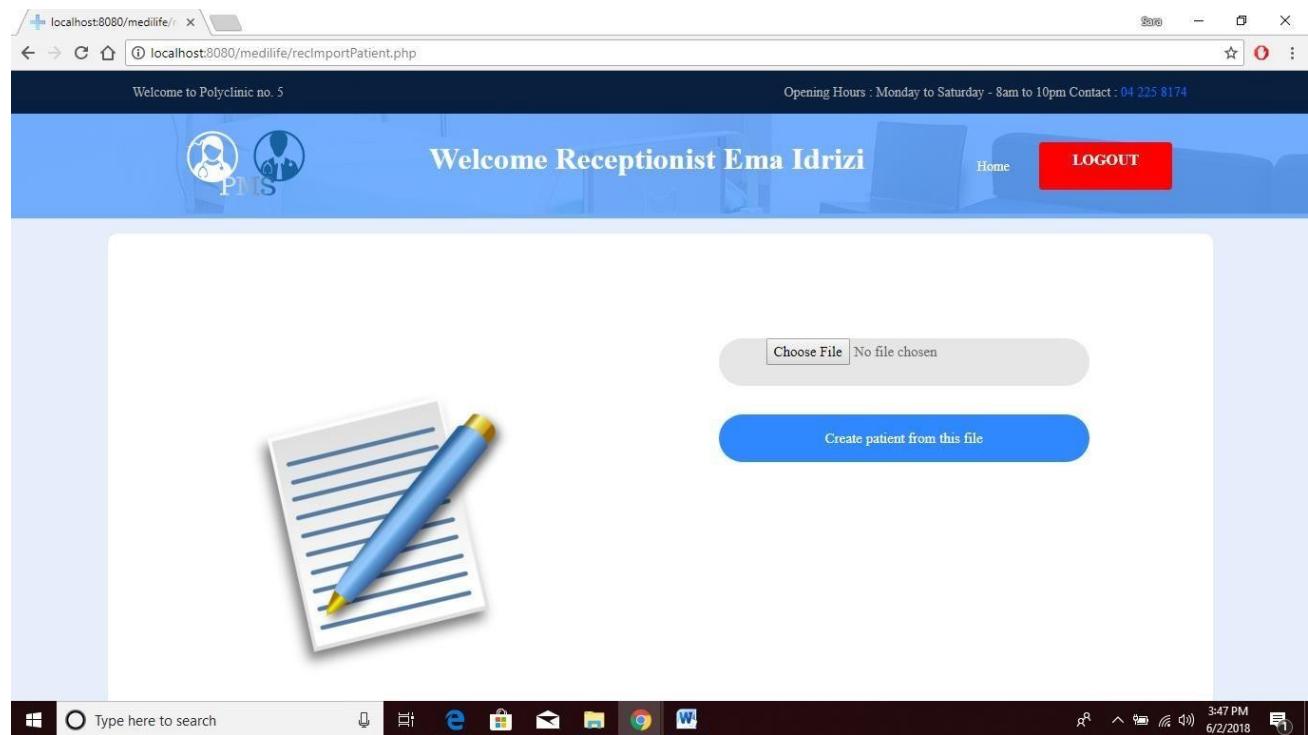
### PS\_48 – Add new patient (incorrect validation)

The screenshot shows a web browser window for 'localhost:8080/medilife/Receipts/ilir\_Alia.pdf'. The title bar says 'ilir\_Alia.pdf'. The PDF document itself has a logo at the top left, a date 'Date: 2018-06-02' at the top right, and a section titled 'Credentials' in bold. Below it, the text 'Username: ilir123' and 'Password: Th11UkVBb1' is displayed. The bottom status bar shows a Windows taskbar with icons for search, file explorer, edge, store, mail, calendar, chrome, and word.

**PMS Documentation**

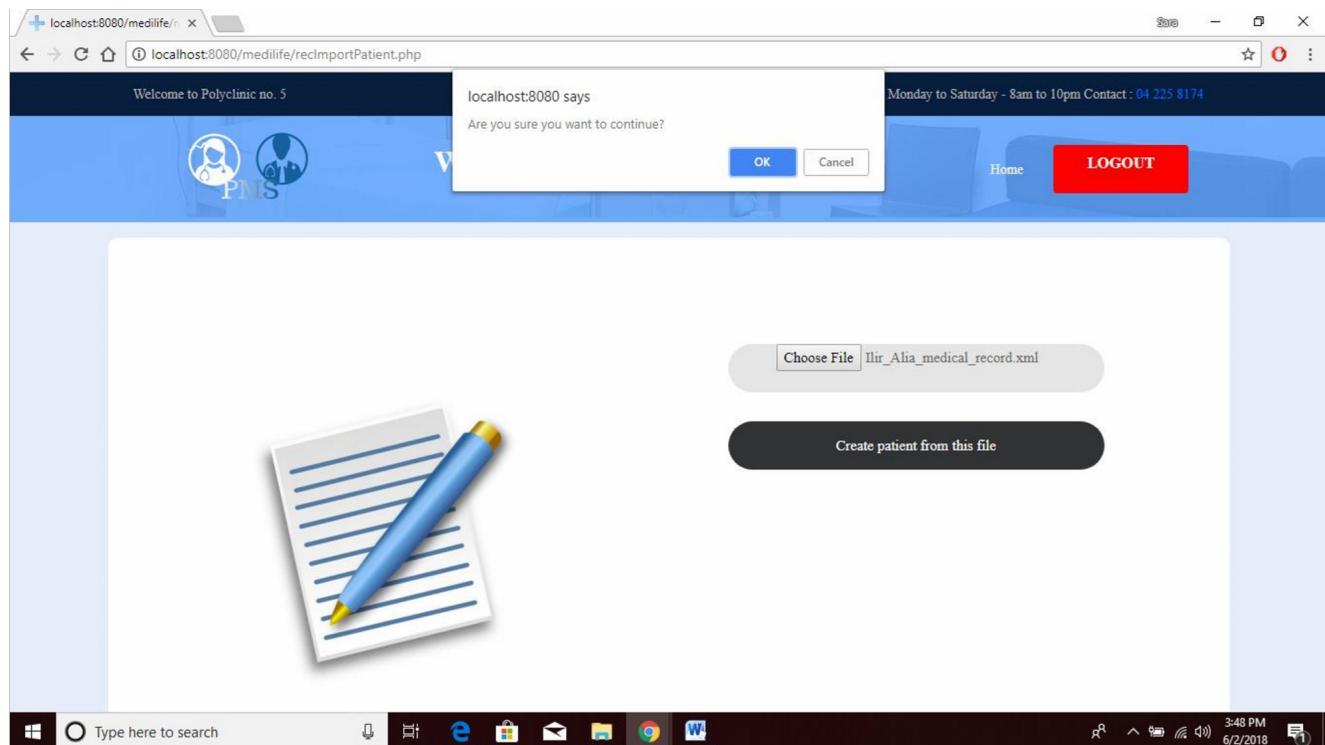
**PS\_49 – Add new patient (correct validation)**

**(a PDF file with username and password is created in order for the receptionist to print and give it to the user)**



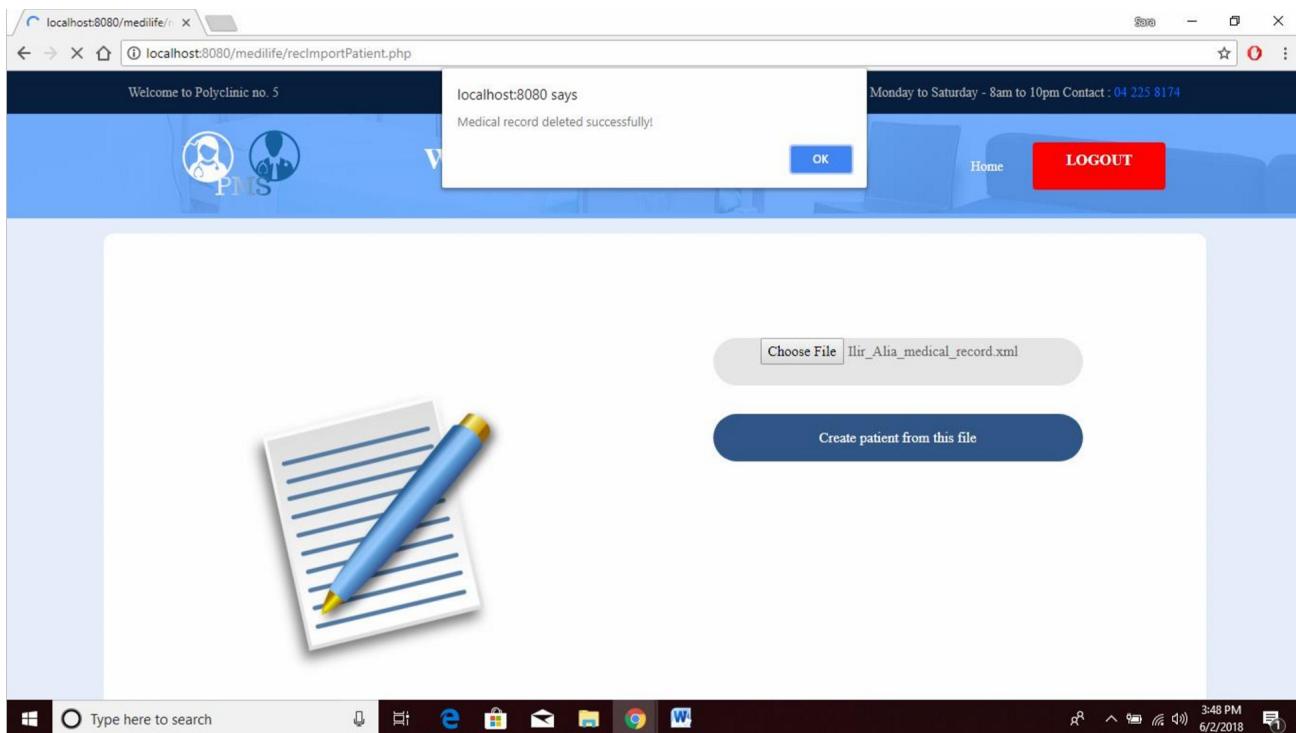
**PS\_50 – Add new patient from existing file (import)**

## PMS Documentation

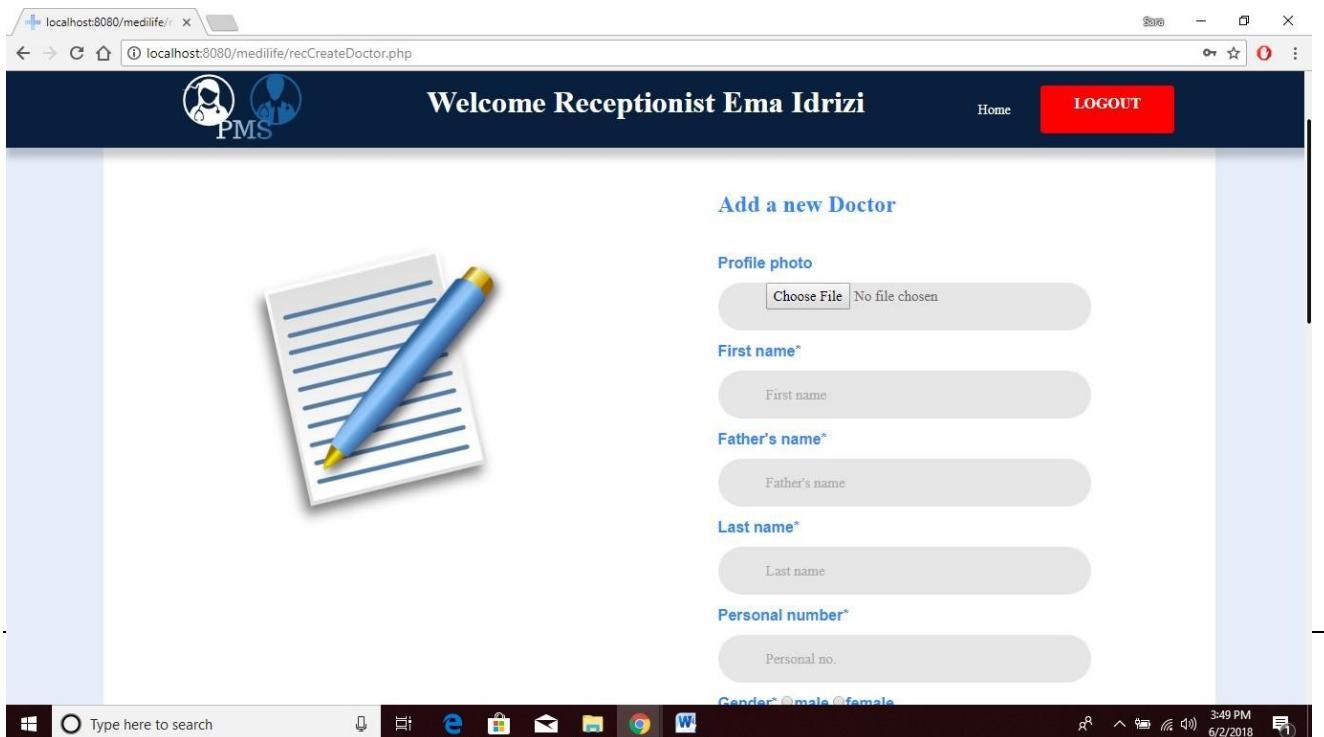


**PS\_51 – Add new patient from existing file (confirmation)**

## PMS Documentation

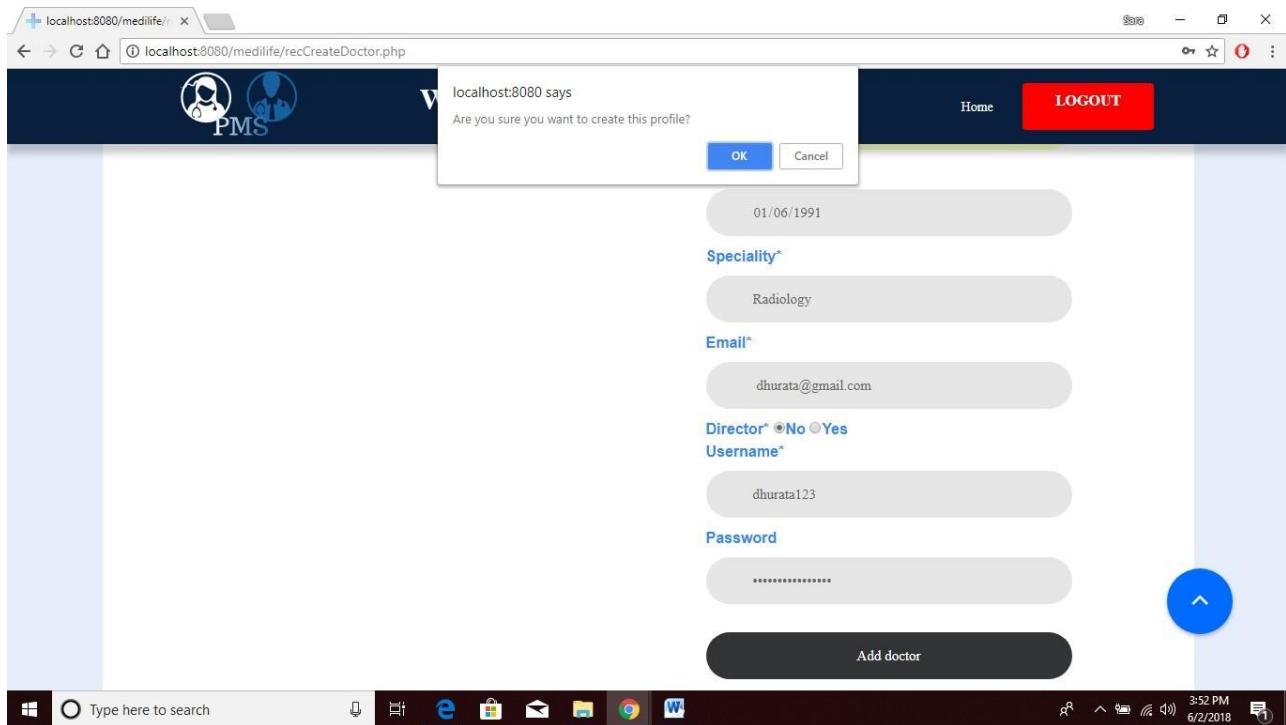


**PS\_52 – Patient imported successfully**



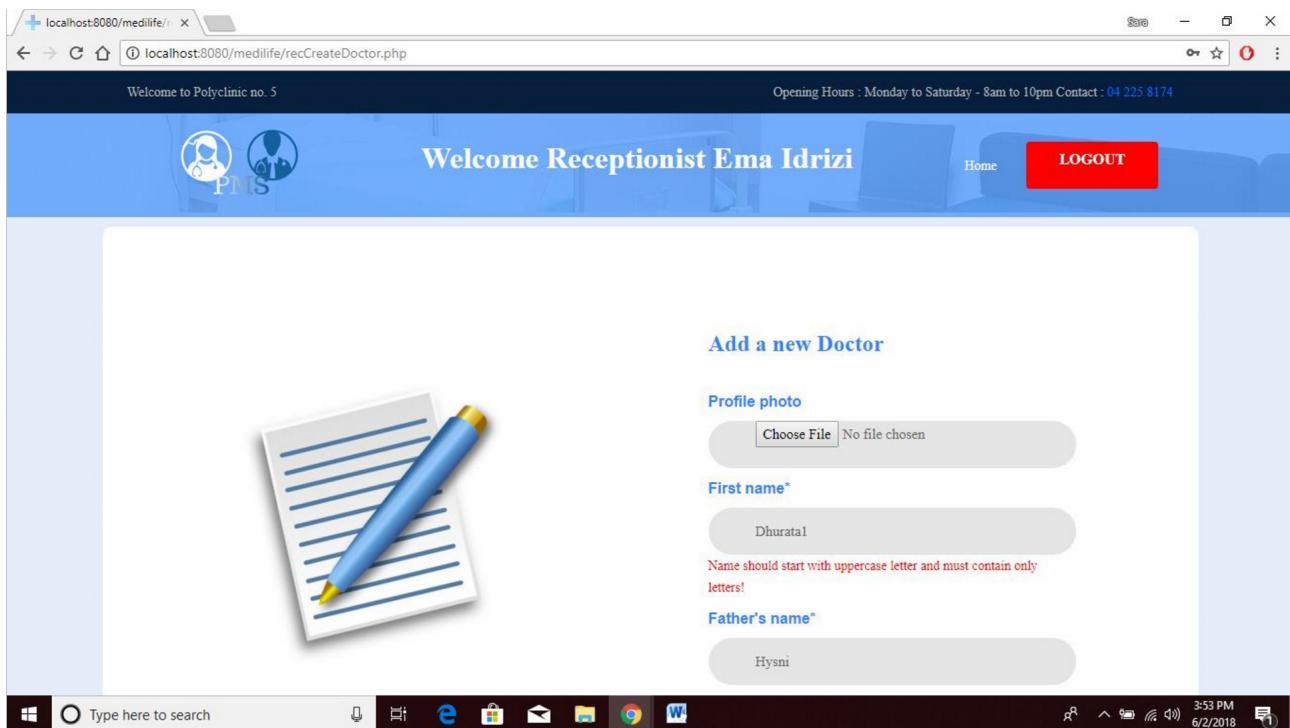
**PS\_53 – Add new doctor form**

## PMS Documentation

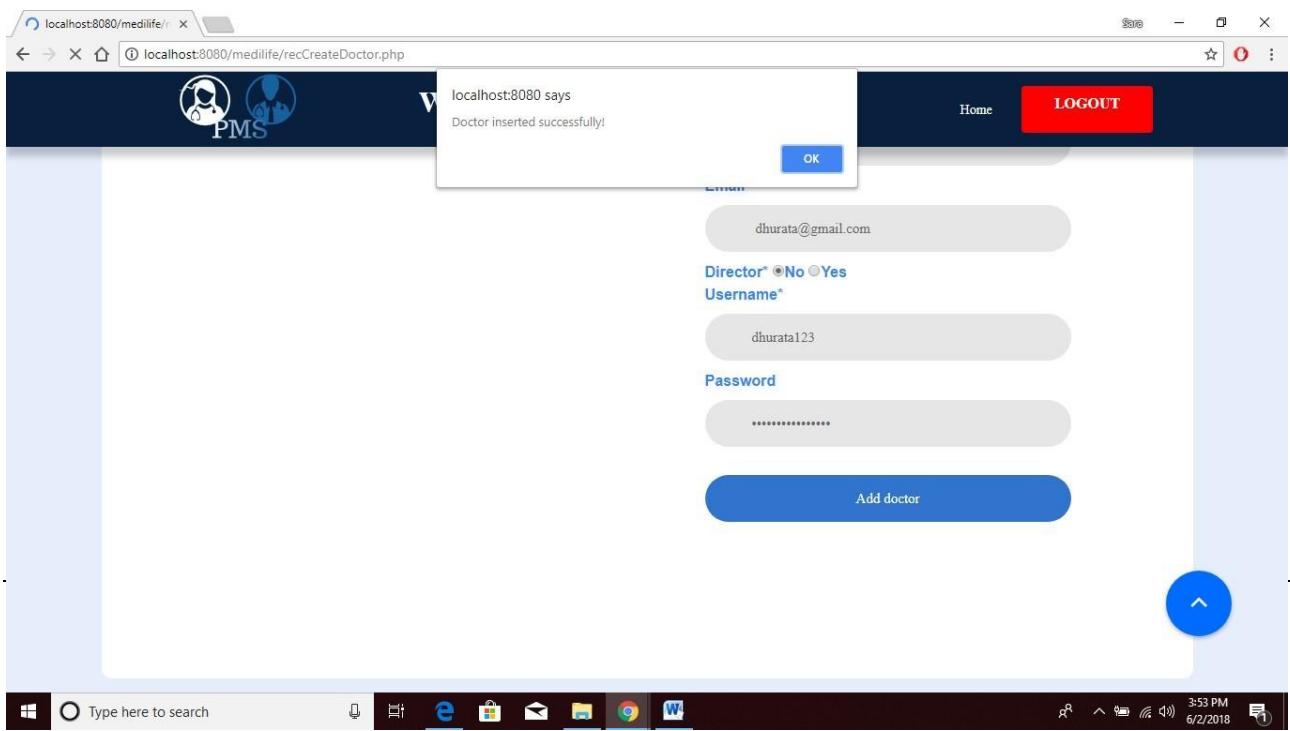


**PS\_54 – Add new doctor (confirmation)**

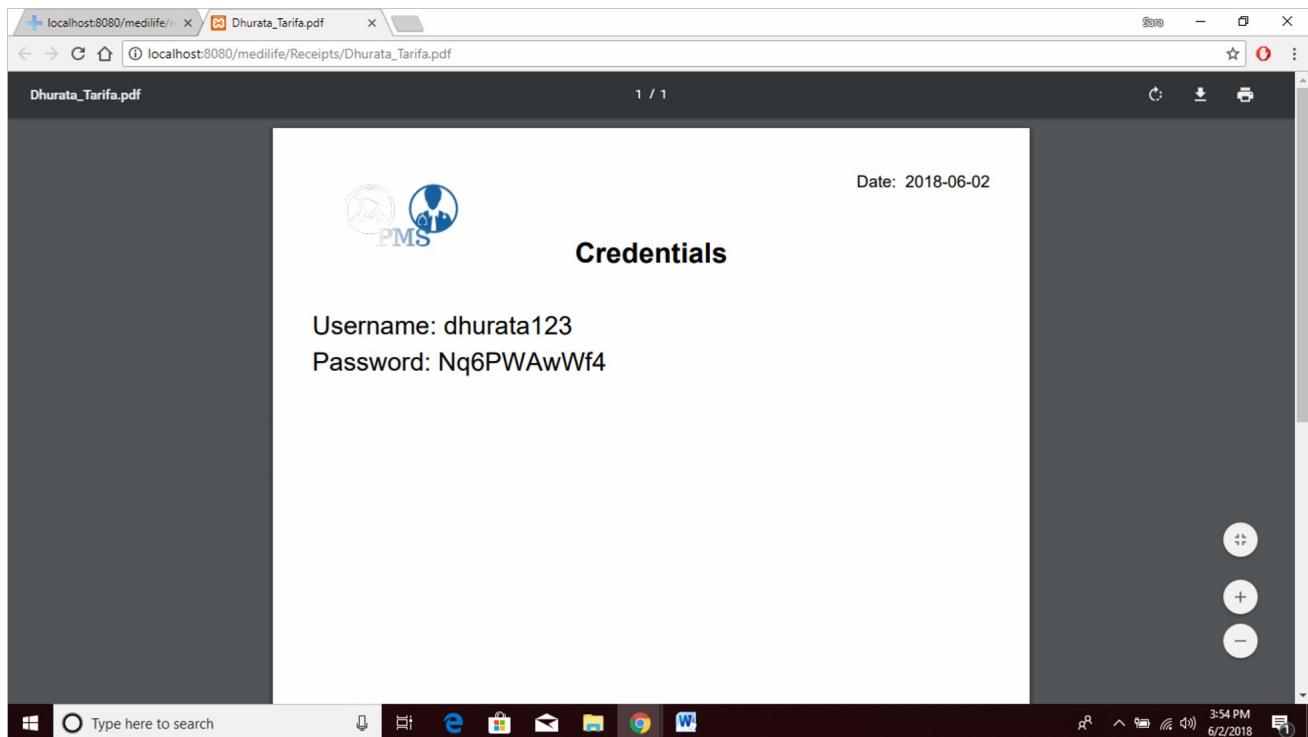
## PMS Documentation



### PS\_55 – Add new doctor (incorrect validation)



**PS\_56 – Add new doctor (correct validation)**



**PS\_57 – Add new doctor (correct validation)**

**(a PDF file with username and password is created in order for the receptionist to print and give it to the user)**

## **6. Project Planning**

Project Name: PMS (Polyclinic Management System)

Members: Ariola Lami, Ilvana Dollaroviq, Kejda Balla, Sara Qirko

Real start and end days: 13.03.2018 – 04.06.2018

Estimated start and end days: 13.03.2018 – 13.08.2018

Real total days: 83 days

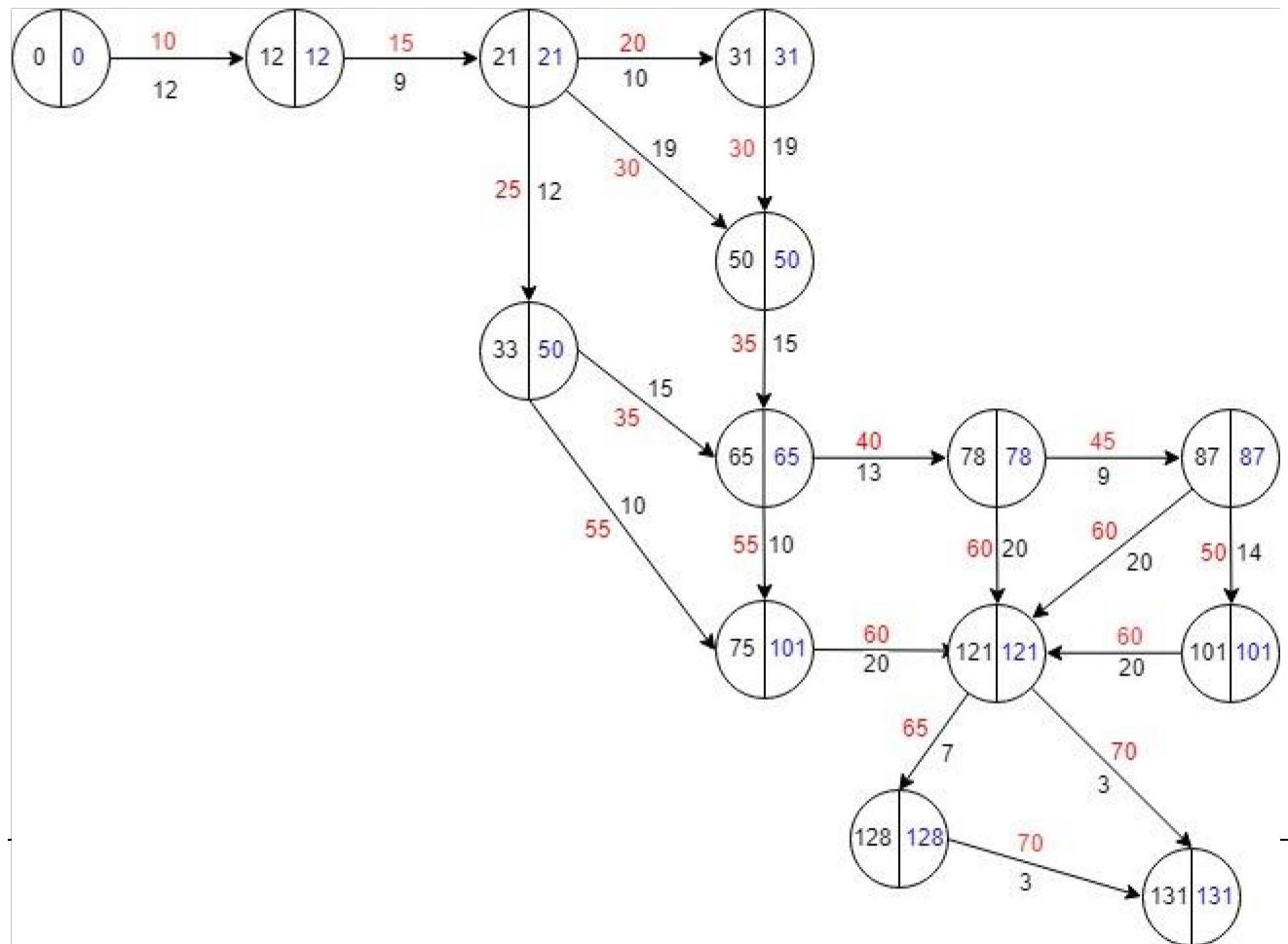
---

Estimated total days: 153 days

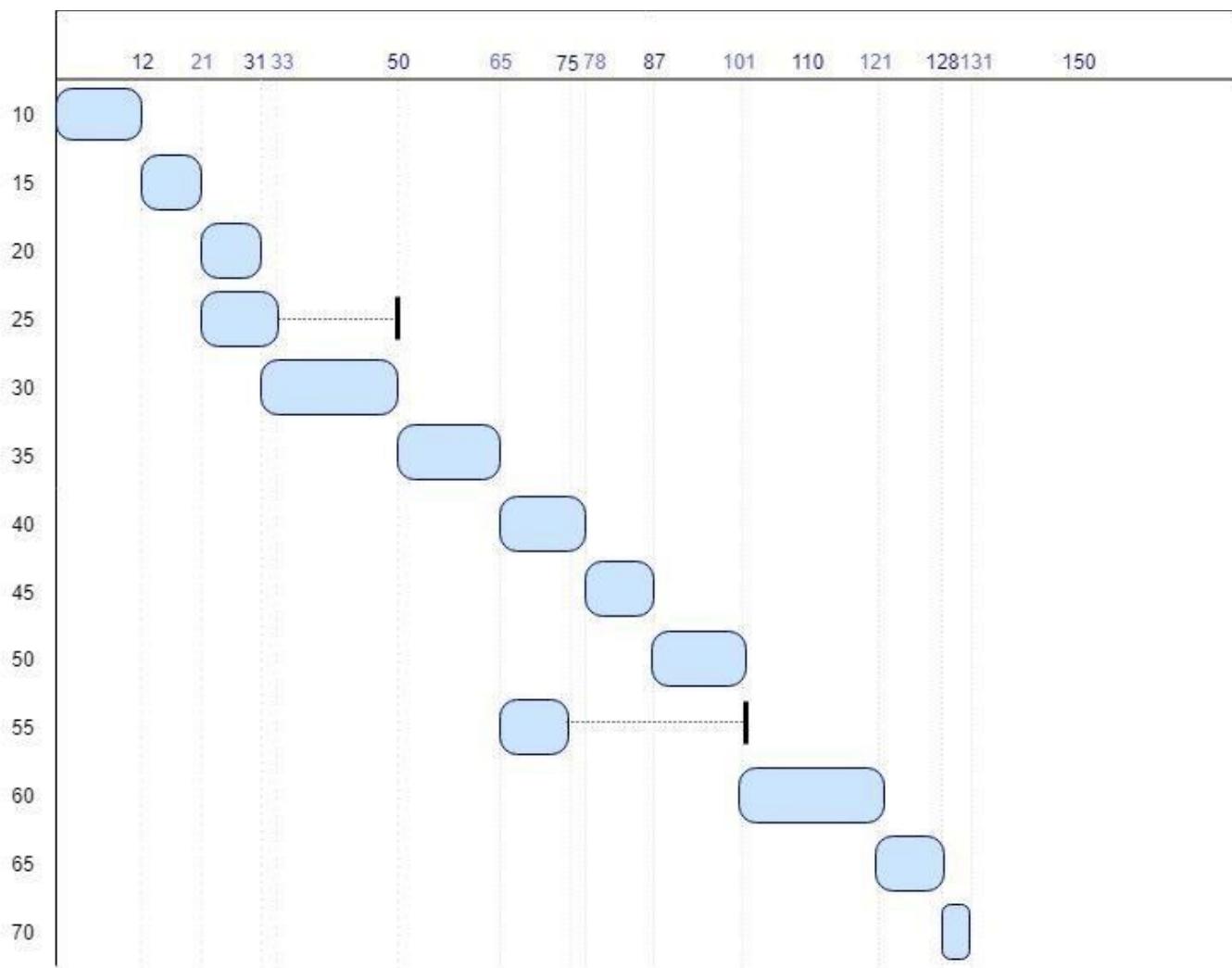
Network Analysis:

Nr	Activity	Duration (Days)	Dependencies
10	Proposed topic for project	12	-
15	Feasibility Study	9	10
20	Project Description	10	15
25	Sketch Designs	12	15
30	Requirements (Functional, Non-functional, Domain)	19	15, 20
35	User scenarios Use cases	15	25, 30
40	Activity Diagram State Diagrams Data Flow Diagram Entity Relation Diagram	13	35
45	Sequence Diagrams Collaboration Diagrams	9	40
50	Class Diagram Object Diagram Component Diagram Deployment Diagram	14	45
55	Detailed Design	10	25, 35
60	Programming	20	40, 45, 50, 55
65	Testing	7	60
70	Installation	3	60,65

Networks:



Stage Plan (Gantt Charts):



## 7. Appendix

### 7.1 Appendix A - Definitions, Acronyms and Abbreviations.

**PMS Documentation**

AD\_## - Activity Diagram followed by a number

CD – Class Diagram

CoD – Component Diagram

ColD\_## – Collaboration Diagram followed by a number

DD – Deployment Diagram

DFD\_## - Data Flow Diagram followed by a number

ERD – Entity Relation Diagram

FR\_## - Functional Requirement followed by a number

OD – Object Diagram

PDF – Portable Document Format

PMS – Polyclinic Management System

PS – Print Screens

SD\_## - State Diagram followed by a number

Sqd\_## - Sequence Diagram followed by a number

UC\_## - Use Case followed by a number

UI – User Interface

US\_## - User Scenario followed by a number

XML – Extensible Markup Language

**7.2 Appendix B - References**

<http://www.shendetesia.gov.al/>

[https://arsimi.gov.al/files/userfiles/mdh/Ligji\\_per\\_mbrotjen\\_e\\_te\\_dhenave\\_personale\\_9887\\_date\\_10\\_03\\_2008\\_i\\_ndryshuar.pdf](https://arsimi.gov.al/files/userfiles/mdh/Ligji_per_mbrotjen_e_te_dhenave_personale_9887_date_10_03_2008_i_ndryshuar.pdf)

[http://www.shendetesia.gov.al/files/userfiles/Baza\\_Ligjore/sistemi\\_i\\_referimit/Untitled.FR11.pdf](http://www.shendetesia.gov.al/files/userfiles/Baza_Ligjore/sistemi_i_referimit/Untitled.FR11.pdf)

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<https://colorlib.com/wp/free-html5-contact-form-templates/>

<http://getbootstrap.com/>

[https://www.w3schools.com/howto/howto\\_js\\_filter\\_table.asp](https://www.w3schools.com/howto/howto_js_filter_table.asp)

<https://colorlib.com/wp/template/medilife/>

### **7.3 Appendix C - File Format**



REPUBLIKA E SHQIPERISE  
MINISTRIA E SHENDETESISE



INSTITUTI I SIGURIMEVE  
TE KUJDESIT SHENDETOSOR

KARTELË PERSONALE NR. \_\_\_\_\_

Qendra Shendetesore \_\_\_\_\_

Ambulanca \_\_\_\_\_

Mjeku i Pergjithshem dhe i Familjes \_\_\_\_\_

Reaksiون nga:	_____
Gr. i Gjakut	_____
Rh. Faktor	_____

Dt. e hapjes se Karteles \_\_\_\_\_  
Kodi i pacientit \_\_\_\_\_  
Nr. i sigurimit shendetesor \_\_\_\_\_  
Kategoria e popullates \_\_\_\_\_  
Grupi i invaliditetit \_\_\_\_\_  
Nr. Dok. Identifikimi \_\_\_\_\_

GJENERALITETET

Emri \_\_\_\_\_ / Atesia \_\_\_\_\_ / Mbiemri \_\_\_\_\_

Datelindja: Data \_\_\_\_\_, Muaji \_\_\_\_\_, Viti \_\_\_\_\_. Nr. Tel. \_\_\_\_\_

Adresa e plete e vendbanimi \_\_\_\_\_

Profesioni \_\_\_\_\_, Detyra \_\_\_\_\_

Qendra e punes \_\_\_\_\_

Ne ngarkim te nje tjetri kur nuk punon \_\_\_\_\_

Figure 1 - File Format Page 1

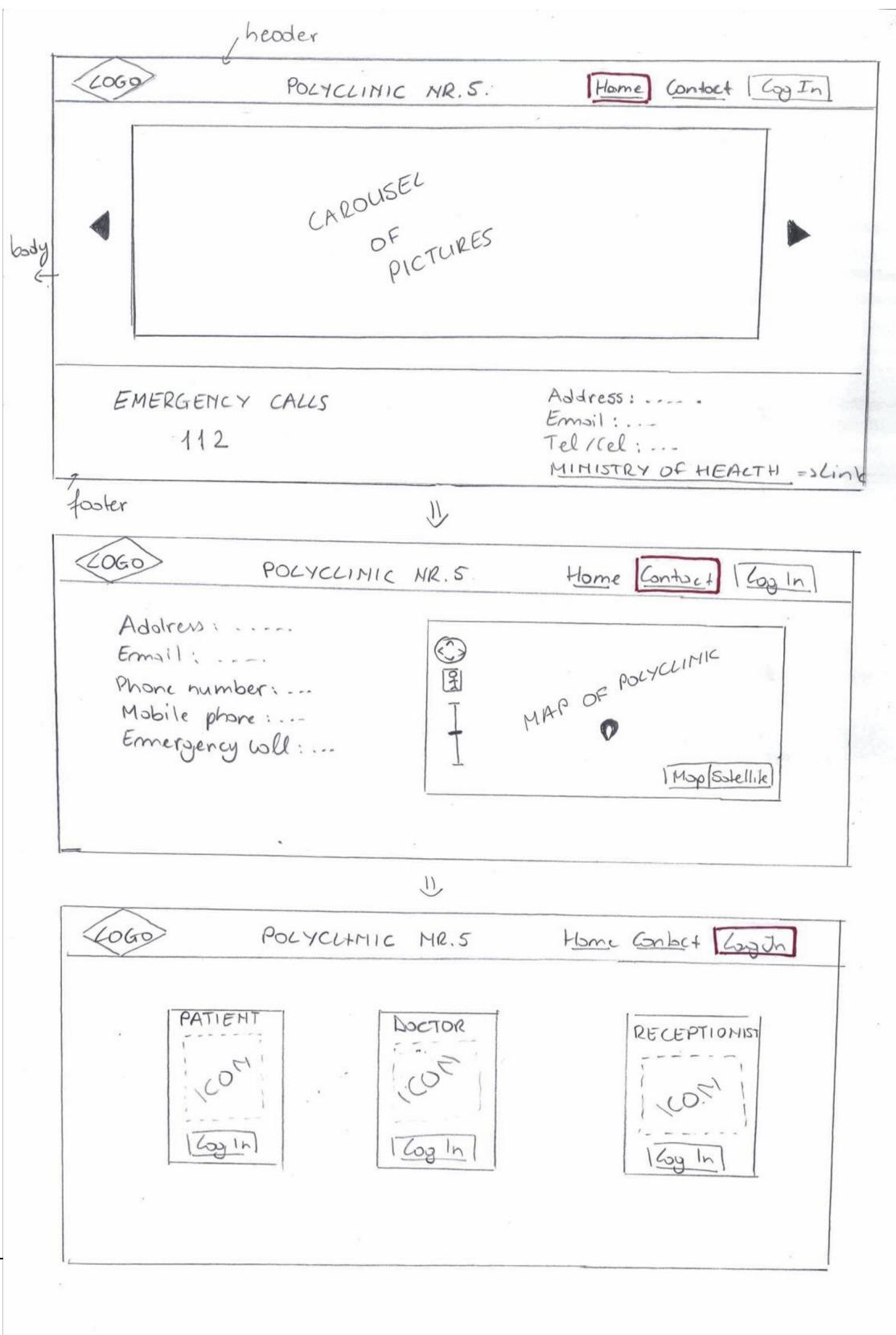
## **ANAMNEZA E JETËS**

## **Figure 2 - File Format Page 2**

### **Figure 3 - File Format Page 3**

#### ***7.4 Appendix D - Sketches***

## PMS Documentation



**Sketch 1. Main page**

A hand-drawn sketch of a login form. It consists of a large rectangular box containing several input fields and a button. At the top left, the word "USERNAME:" is written above a horizontal line. Below it, the word "PASSWORD:" is written above another horizontal line. In the center of the box, the word "reCaptcha" is written above a rounded rectangle containing a checkbox and the text "I am not a robot!". At the bottom of the box, the word "Log in" is written above a horizontal line.

→ Log in form

**Sketch 2. Login form**

PATIENT: NAME SURNAME	
<b>PERSONAL INFORMATION</b> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">PROFILE PICTURE</div> <p>NAME: ....          SURNAME: ...          FATHER'S NAME: ...          BIRTHDATE: ...          BIRTHPLACE: ...          PROFESSION: ...          JOB: ...          ADDRESS: ...</p>	
<b>MEDICAL RECORD</b> <p>BLOOD TYPE: ...          RH FACTOR: ...          ALLERGIES: ...          FAMILY'S DOCTOR:          ANAMNESIS:</p> <div style="border: 1px solid black; height: 100px; margin-top: 10px;"></div>	
<b>MY PROFILE</b> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">RECORDS</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">CHANGE PASSWORD</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">CONTACT DOCTOR</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">LEAVE FEEDBACK</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">LOG OUT</div>	

Sketch 3. Patient's profile

①

	PATIENT : NAME SURNAME	
EXAMINATION VISIT # NR		
DATE: — / — / —		
DOCTOR: _____		
COMPLAINTS:	 .....	
DIAGNOSIS:	 .....	
MEDICINES:	 .....	
DAYS OFF: —		
IS INFECTIOUS?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<a href="#">Download</a> ②		

prev

next

Sketch 4. Patient's records

**PMS Documentation**

(2)

PDF FORMAT



visit\_id: 123456

Date: - / - / -

MEDICAL VISIT

PATIENT'S INFORMATION:

PATIENT: \_\_\_\_\_  
PERSONAL NR: \_\_\_\_\_  
HEALTH INSURANCE NR: \_\_\_\_\_  
BLOOD TYPE: \_\_\_\_\_  
RH FACTOR: \_\_\_\_\_  
ALLERGIES: \_\_\_\_\_

MEDICAL VISIT:

DOCTOR: \_\_\_\_\_

PATIENT'S COMPLAINTS:

DIAGNOSIS:

MEDICINES:

DAYS OFF: \_\_\_\_\_

IS INFECTIOUS: \_\_\_\_\_

DOCTOR'S SIGNATURE:

**Sketch 5. PDF format of medical visit**

③

	PATIENT: NAME SURNAME	
CURRENT PASSWORD: **** * * *		
NEW PASSWORD: **** * * *		
CONFIRM PASSWORD: **** * * *		
<b>Save Changes</b>		

! The same design will be used for "Change password" menu  
for doctor and receptionist.

**Sketch 6. Change Password**

④

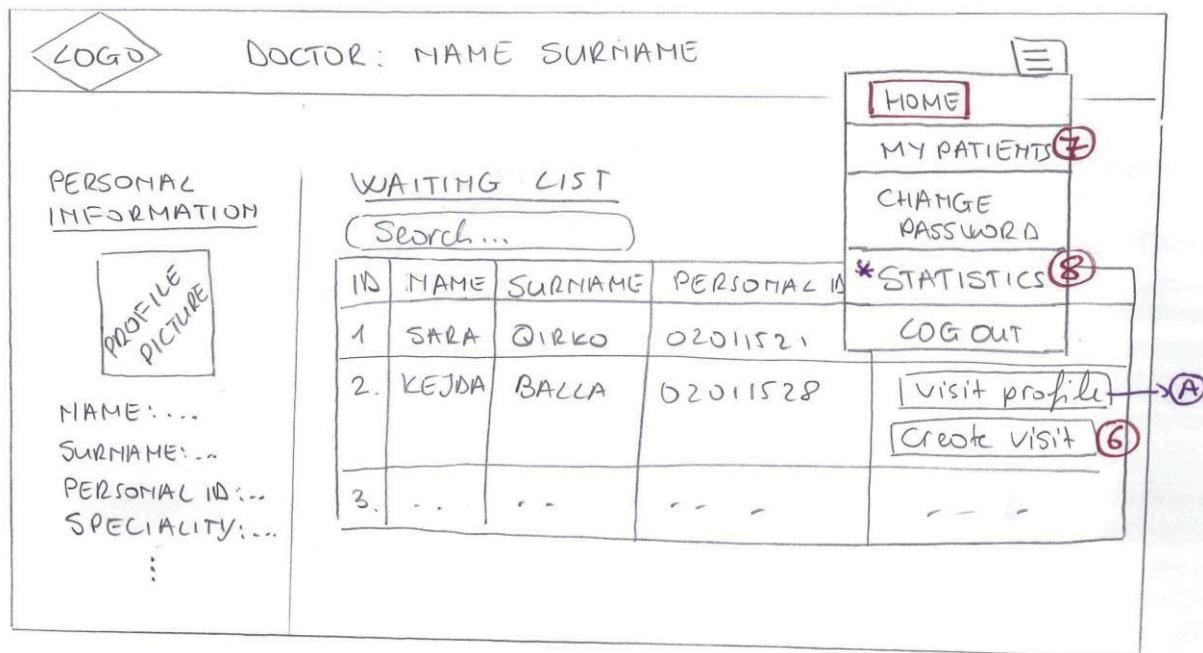
	PATIENT: NAME SURNAME	
NAME: <input type="text"/>		
EMAIL: <input type="text"/>		
MESSAGE: <input type="text"/>		
<input type="button" value="SEND"/>		

Sketch 7. Patient contacts doctor

⑤

	PATIENT: NAME SURNAME			
How satisfied are you with the service :				
<input type="radio"/> ☹	<input type="radio"/> ☹	<input type="radio"/> ☺	<input type="radio"/> ☺	<input type="radio"/> ☺
Comments:				
<input type="text"/>				
<input type="button" value="Leave Feedback"/>				

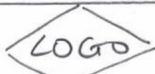
Sketch 8. Patient leaves feedback



(A) Visit profile will take us to a page with design similar to "My profile" menu of PATIENT actor (described before). From this page you can view the examinations of that specific patient, similar to "Records" menu of PATIENT Doctor. You can also download a specific visit and a PDF file will be created, similar to PDF format described before.

### Sketch 9. Doctor's profile

⑥



DOCTOR: NAME SURNAME



NAME: KEJDA  
SURNAME: BALLA

COMPLAINTS:

write here...

DIAGNOSIS:

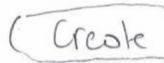
write here ...

MEDICINES:

write here ...

DAYS OFF: 1 

IS INFECTIOUS;  Yes  No

(Create  \* also creates a PDF

Sketch 10. Doctor creates visit

⑦



DOCTOR: NAME SURNAME

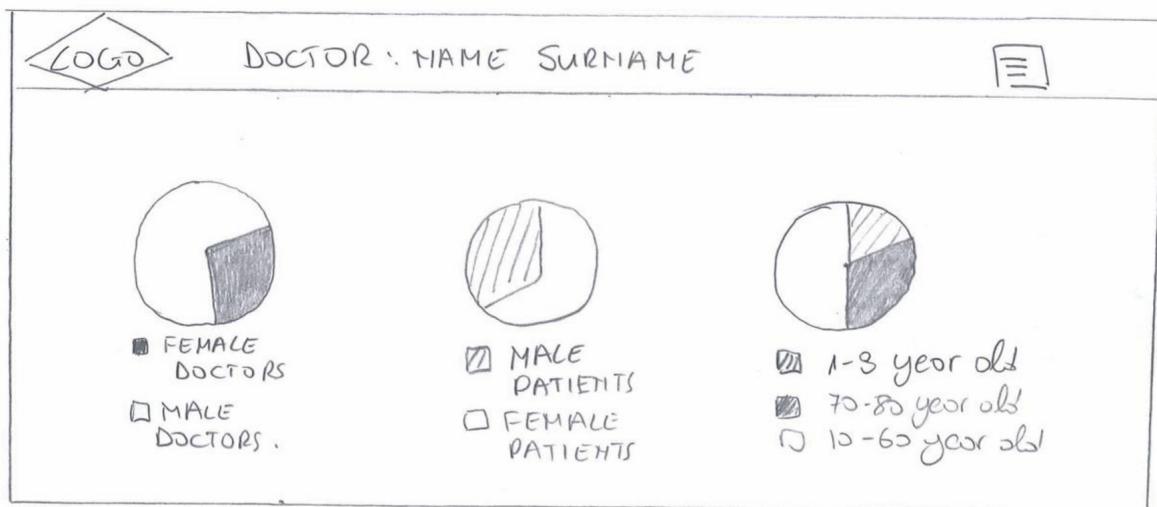


(Search...)

ID	NAME	SURNAME	FATHER'S NAME	BIRTHDATE	ACTION
1	SARA	QIRKO	JORGO	12/12/1996	(View Profile) 
2					
3					
4					

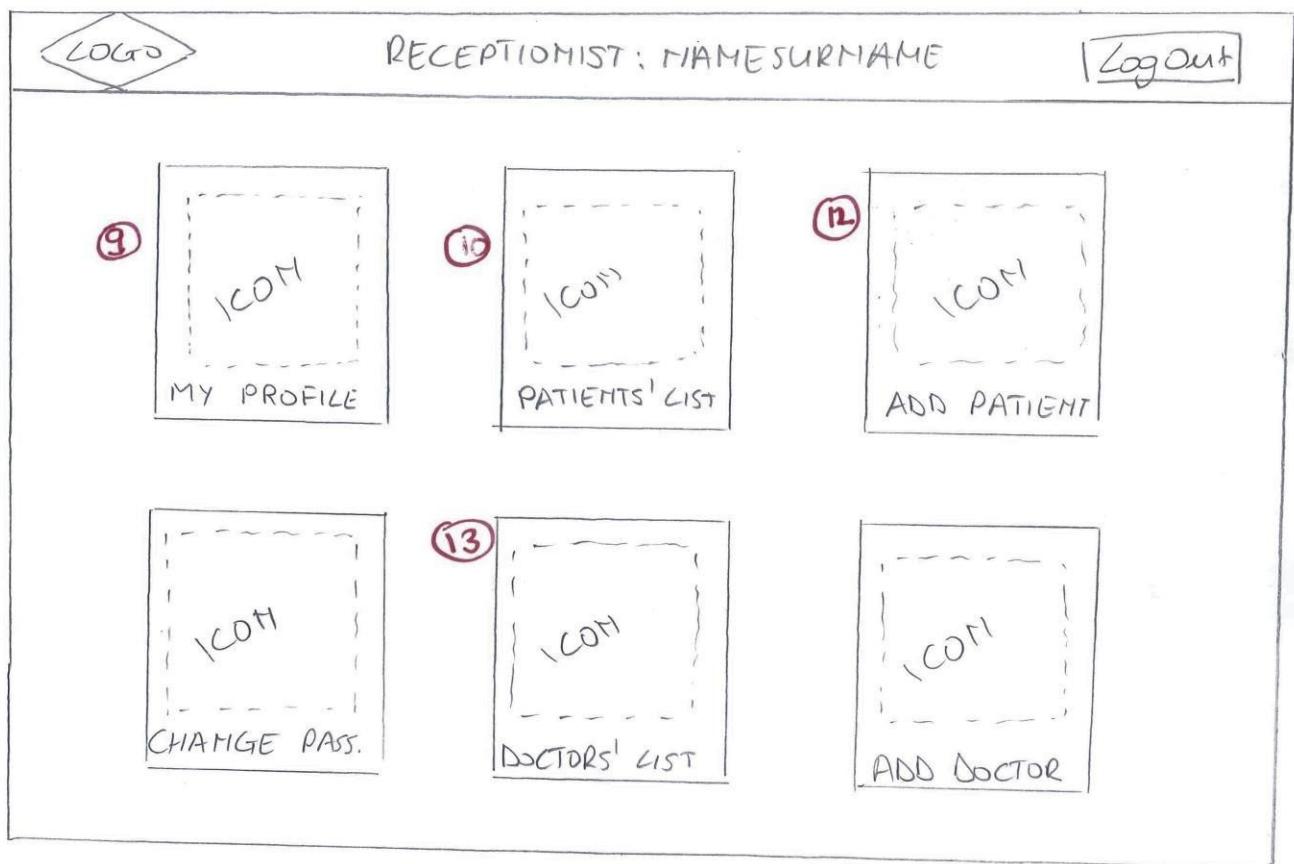
**Sketch 11. Doctor's patients**

(8)

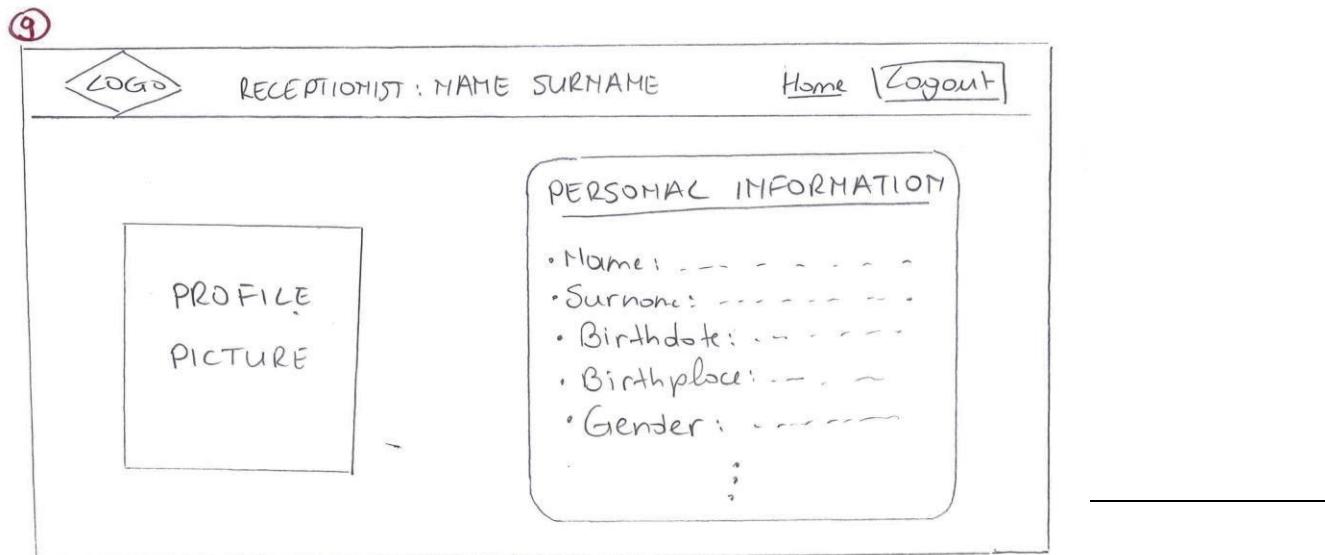


\* Statistics page is shown only to the doctor who is the director of the polyclinic.

**Sketch 12. Statistics**



**Sketch 13. Receptionist's home**



**Sketch 14. Receptionist's profile**

(10)

	RECEPTIONIST: NAME SURNAME		Home	Logout
<u>PATIENTS' LIST</u>				
<input type="text" value="Search..."/>				
ID	Name	Surname	Action	
1.	Soro.	Qirko	(View Profile)	(Update)
			(Allow visit)	(Export)
			(Delete)	

- (A) Visit profile will take us to a page with design similar to "My Profile" menu of PATIENT doctor. (described before)  
From this page you can view examinations of that specific patient, similar to records menu of PATIENT doctor.  
You can also download a specific visit and a PDF file will be created. Similar to PDF format described before.
- (B) Allow visit - allow the patient's family doctor to create a new record on the patient's file. A pop up window to confirm this action will be shown.
- (C) Delete - a pop up window will be shown to confirm action
- (D) Export - an XML file will be created with patient's information

### Sketch 15. Receptionist views patients

(11)



RECEPTIONIST: NAME SURNAME Home Layout

UPDATE PATIENT

NAME: [ ]  
SURNAME: [ ]  
ADDRESS: [ ]  
EMAIL: [ ]  
JOB: [ ]  
PHONE: [ ]

; ;

( Save changes )

- At the beginning, all fields will be filled with existing information which can be changed.

**Sketch 16. Receptionist updates patient**

(12)  RECEPTIONIST: NAME SURNAME Name Surname

ADD NEW PATIENT

NAME:   
 SURNAME:   
 ADDRESS:   
 EMAIL:   
 JOB:

: :  
ADD PATIENT  
IMPORT → (E)

- The same idea will be used for "Add new doctor" section. The only difference is that there should be some other fields for doctor information and a doctor cannot be imported.

(E) Import - will open a window to choose an XML file and its information will be added to database.

### Sketch 17. Receptionist adds patient

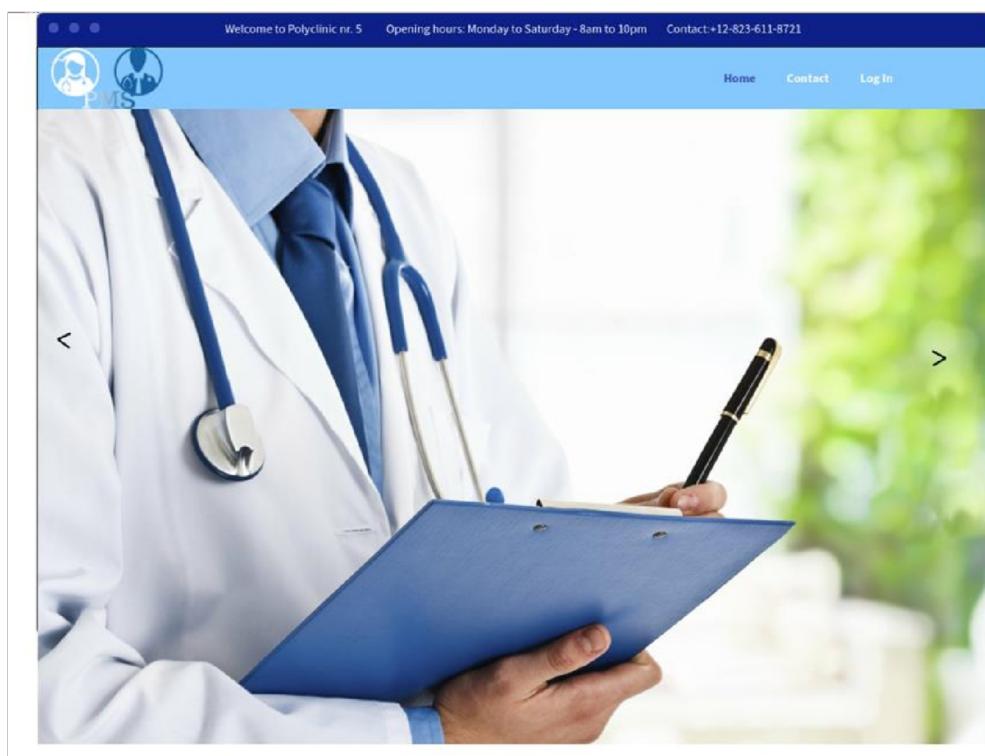
(13)

	RECEPTIONIST: NAME SURNAME		<u>Home</u>   <u>Logout</u>
<u>DOCTORS' LIST</u>			
<input type="text" value="Search..."/>			
ID	NAME	SURNAME	ACTION
1	SARA	QIRKO	<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">E</span> (View profile) <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">F</span> (Update) <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">G</span> (Delete)
:	:	:	:

- (E) View profile will take us to a page with design similar to "Home" menu of DOCTOR actor. (described before)
- (C) Delete - a pop up window will be shown to confirm action.
- (F) Update - similar to "update patient's profile" described at (11). The only difference is that the fields that should be filled for patient and doctor are different.

**Sketch 18. Receptionist views doctor**

## **7.5 Appendix E - Detailed Designs**



**Detailed Design 1 Home Page**

## PMS Documentation

Welcome to Polyclinic nr. 5   Opening hours: Monday to Saturday - 8am to 10pm   Contact:+12-823-611-8721

**Home**   **Contact**   **Log In**

**Address:** Islam Alla street, 50m from street entrance.

**Tel:** 04 225 8174

**Email:** medicalcenterest18@gmail.com

Full Banner Ad - 468x60

Ministria e shendetesise

## Detailed Design 2 Contact Page

Welcome to Polyclinic nr. 5   Opening hours: Monday to Saturday - 8am to 10pm   Contact:+12-823-611-8721

**Home**   **Contact**   **Log In**

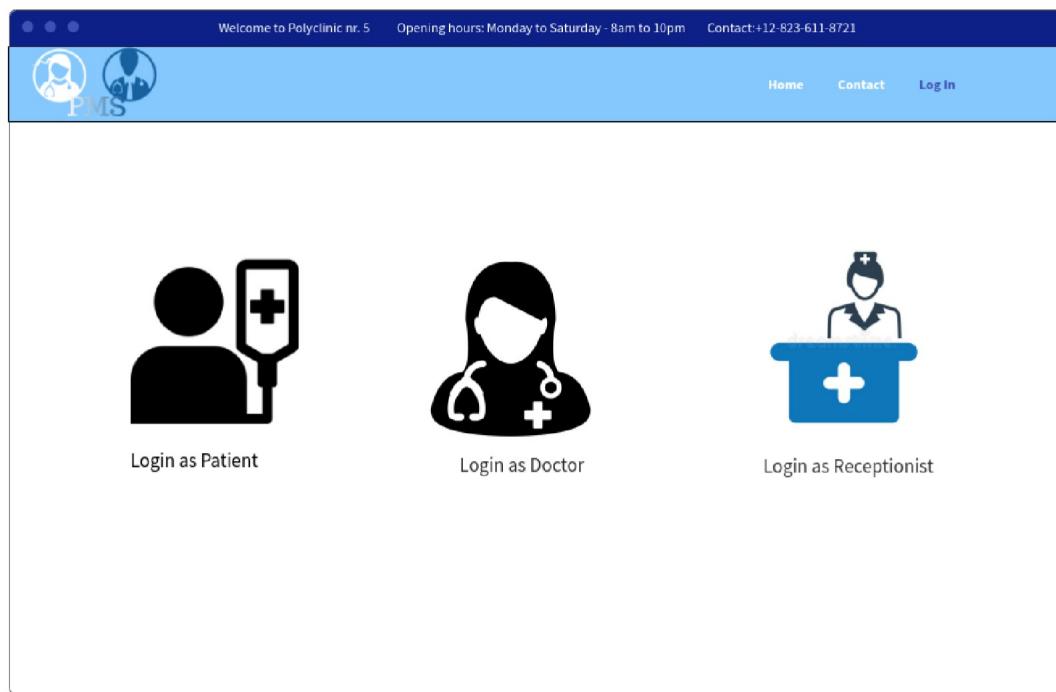
 Login as Patient

 Login as Doctor

 Login as Receptionist

## Detailed Design 3 Log-in Page

## PMS Documentation



### Detailed Design 4 Log-in Form

ID	First Name	Father's Nam.,	Last Name	Birthdate	Personal No.	Action
1	Robert	Andrea	Storms	1992/06/17	E12345678D	<a href="#">View Profile</a> <a href="#">Create Visit</a>
2	Stephan	Denis	Popp	2000/12/09	D12345678D	<a href="#">View Profile</a> <a href="#">Create Visit</a>
3	Ilvana	Gazmend	Dollarovic	1997/06/28	D12345678D	<a href="#">View Profile</a> <a href="#">Create Visit</a>

### Detailed Design 5 Doctors' Home Page

## PMS Documentation

The screenshot shows a web-based medical system interface. At the top, there's a blue header bar with the text "Welcome to Polyclinic nr. 5", "Opening hours: Monday to Saturday - 8am to 10pm", and "Contact: +12-823-611-8721". On the left, there are icons for users and the PMS logo. The main title "Welcome Doctor Ana Marku" is displayed. A sidebar menu on the right includes "HOME", "MY PATIENTS", "CHANGE PASSWORD", and "LOG OUT". The main content area has a section titled "Medical Record Information" with a doctor icon. Below it, under "Personal Information", there's a table of patient details:

Name: Robert	Health Insurance Number: 324134123
Surname: Storms	Blood Type: A+
Birthdate: 1992-06-17	Rh._factor: R-
Birthplace: Tirana	Allergies: none
Gender: M	Anamnesis: none
Fathers Name: Andrea	Family's doctor: Ana Marku
Personal Number: E12345678D	Created by: Ema Idrizi
Address: Tirane	Date of medical record's creation: 2018-05-01
Phone: 0678356945	
Profession: Architect	
Job: Businessman	
Guardian:	
E-mail: robert123@gmail.com	

A blue button labeled "View Examinations" is located at the bottom of this section.

### Detailed Design 6 Patients' Profile Page

The page in detailed design 6 is opened when the “View Profile” button from the “Waiting List” table in doctors’ home page is clicked. The same design model will be used when we click the button “View Profile” located in “My Patients” page, for the “Home” page when the user is logged in as a patient and “My Profile” page when the user is logged in as a receptionist only without including medical record information.

The same idea will be used when you click “Visit Profile” on “Patients’ List” and on “Doctors’ List” page when the user is logged in as a receptionist.

## PMS Documentation

The screenshot shows a web-based application for medical documentation. At the top, there is a header bar with the text "Welcome to Polyclinic nr. 5", "Opening hours: Monday to Saturday - 8am to 10pm", and "Contact: +12-823-611-8721". Below the header is a logo featuring two stylized human figures and the acronym "PMS". The main title "Welcome Doctor Ana Marku" is displayed prominently. On the right side, a vertical menu is open under "Menu", showing options like "HOME", "MY PATIENTS", "CHANGE PASSWORD", and "LOG OUT". The central content area is titled "Examination Visit nr. 15". It contains several data fields:

- Date Created: 2018-05-23
- Family's doctor: Ana Marku
- Complaints: No complaints
- Diagnosis: The patient suffers from migraine
- Medicines: Migranocil 7g
- Days off: 2
- Is this an infectious disease: No

A blue "Download" button is located at the bottom of this section. Navigation buttons "Prev" and "Next" are positioned on either side of the main content area.

### Detailed Design 7 View Examinations of the Patients Profile Page

The page in detailed design 7 is opened when the “View Examinations” button from the “Patients’ profile” page. The same idea will be used when you click “My records” from Menu when the user is logged in as a patient.

## PMS Documentation

Welcome to Polyclinic nr. 5   Opening hours: Monday to Saturday - 8am to 10pm   Contact: +12-823-611-8721

Welcome Doctor Ana Marku

Menu ▾

- HOME
- MY PATIENTS
- CHANGE PASSWORD
- LOG OUT

**Create Visit**

Name: Robert  
Father's Name: Andrea  
Surname: Storms  
Gender: M  
Birthday: 1992-06-17  
Doctor's Name: Ana  
Doctor's Surname: Marku  
Birthplace: Tirane

Complaints

Diagnosis

Medicines

Days off:

Is infectious?

**Save Visit**

### Detailed Design 8 Create Visit

The page in detailed design 8 is opened when the Create Visit button from the 'Waiting List' in doctors' home page is clicked.

Welcome to Polyclinic nr. 5   Opening hours: Monday to Saturday - 8am to 10pm   Contact: +12-823-611-8721

Welcome Doctor Ana Marku

Menu ▾

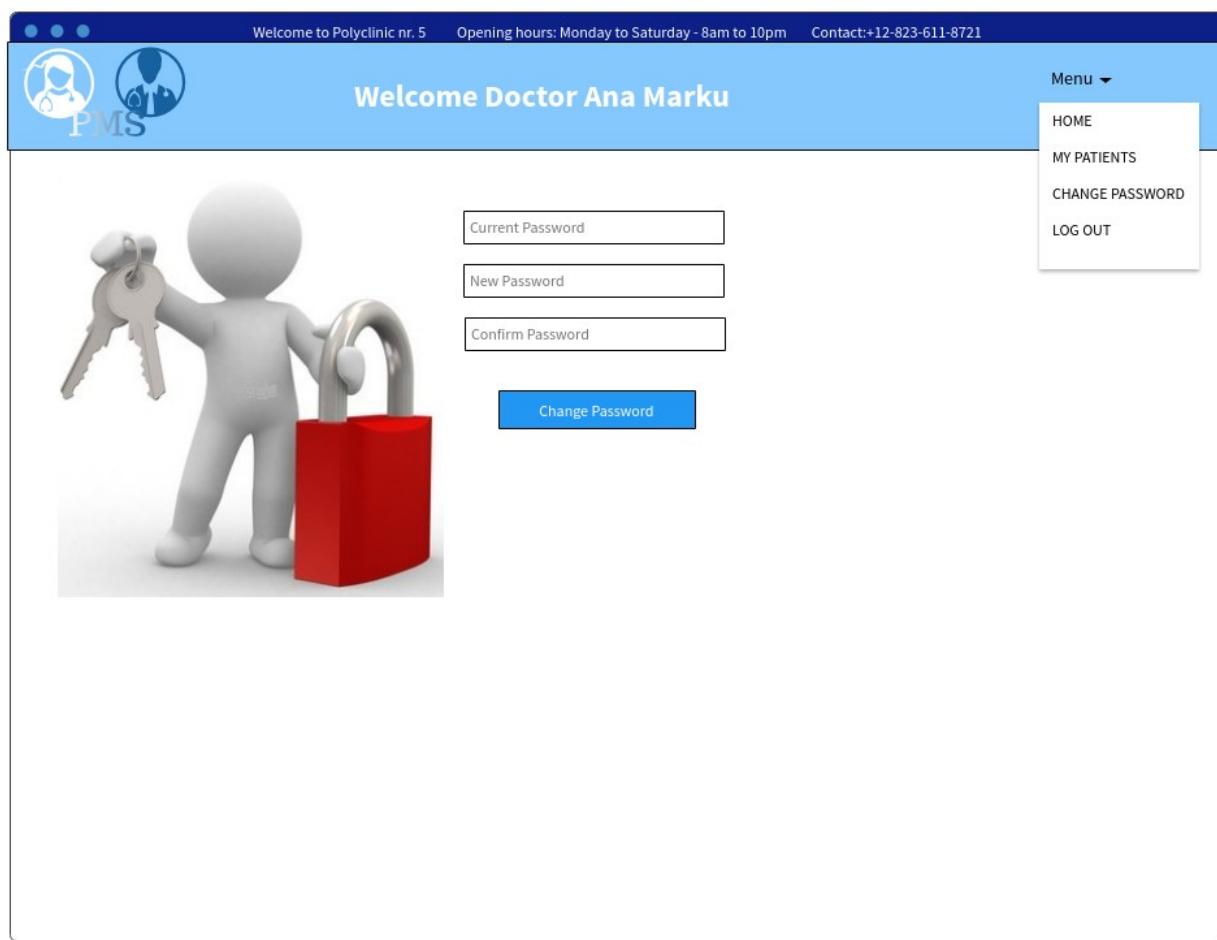
- HOME
- MY PATIENTS
- CHANGE PASSWORD
- LOG OUT

First Name   Last Name

ID	First Name	Last Name	View Profile
1	Mark	Otto Inc	<b>View Patient</b>
2	Jacob	Thornton	<b>View Patient</b>
3	Larry	Bird	<b>View Patient</b>
4	Jake	Hemingway	<b>View Patient</b>
5	Tim	Burton	<b>View Patient</b>
6	Jake	Lembert	<b>View Patient</b>

### **Detailed Design 9 My Patients**

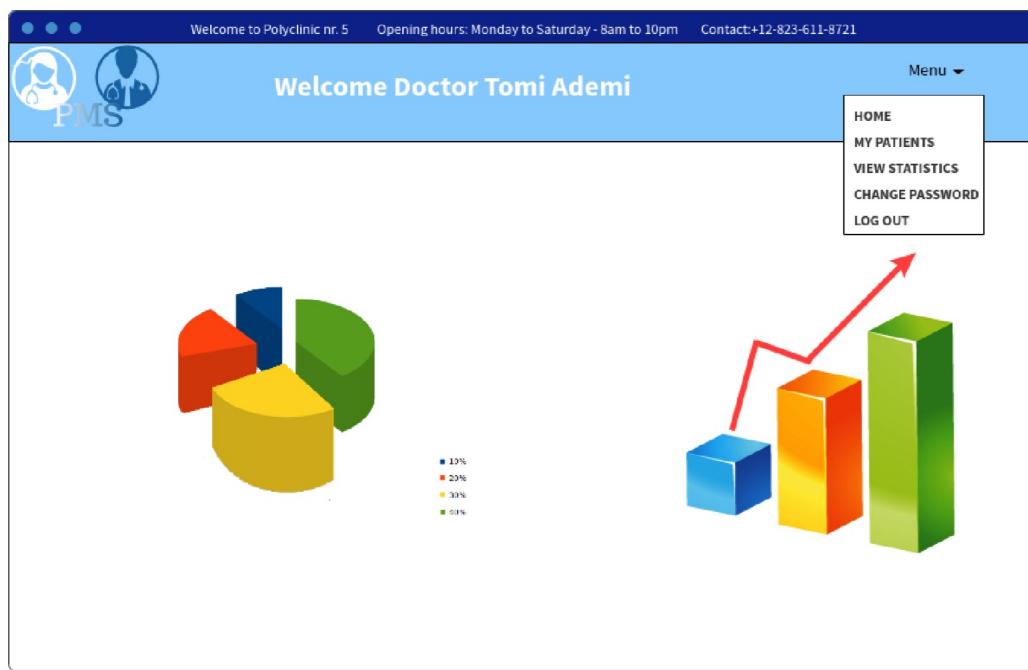
The page in detailed design 9 is shown when “My Patients” from “Menu” is clicked. The same idea will be used when you click “Patients’ List” from “Home” when the user is logged in as a receptionist. The only difference will be that this page will have 4 more buttons: “Update”, “Allow Visit”, “Export” and “Delete”. Also, it will be used when you click “Doctors’ List” from “Home” when the user is logged in as a receptionist. The only difference will be that this page will have 2 more buttons: “Update” and “Delete”.



### **Detailed Design 10 Change Password**

The page in detailed design 10 is shown when “Change Password” from ‘Menu’ is clicked. The same idea will be used for all users when you click “Change Password” when the user is logged in.

## PMS Documentation



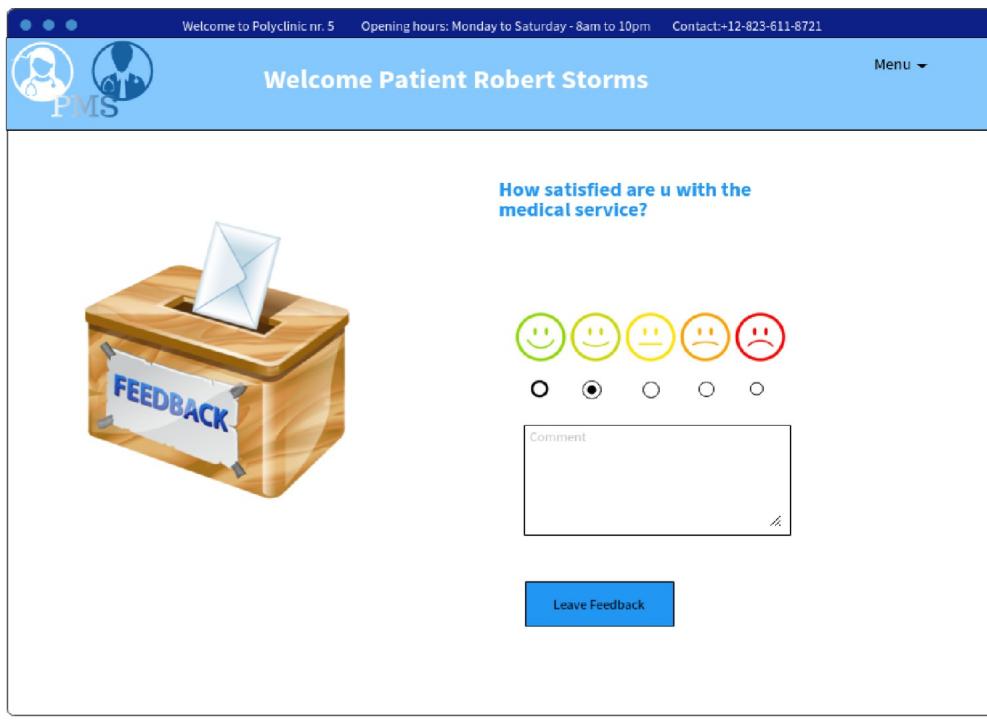
### Detailed Design 11 View Statistics

The page in detailed design 11 is shown when “View Statistics” from the “Menu” is clicked. Only the director has this option.

The screenshot shows the PMS application interface. At the top, there is a header bar with the text "Welcome to Polyclinic nr. 5", "Opening hours: Monday to Saturday - 8am to 10pm", and "Contact: +12-823-611-8721". On the left, there are two circular icons: one with a doctor's head and another with a city skyline, both labeled "PMS". The main title "Welcome Patient Robert Storms" is displayed in the center. On the right, a "Menu" dropdown menu is open, showing options: "HOME", "MY PATIENTS", "VIEW STATISTICS", "CHANGE PASSWORD", and "LOG OUT". In the center of the page, there is a form for sending a message. It includes fields for "Name" (containing "Robert"), "Email" (containing "i"), and a "Message" area with placeholder text "Message". Below the message area is a "Send" button. To the left of the form, there is a large envelope icon.

### Detailed Design 12 Contact Doctor

The page in detailed design 12 is shown when “Contact Doctor” is clicked from the “Menu” when the user is logged in as a patient.



Welcome Patient Robert Storms

How satisfied are u with the medical service?

FEEDBACK

Comment

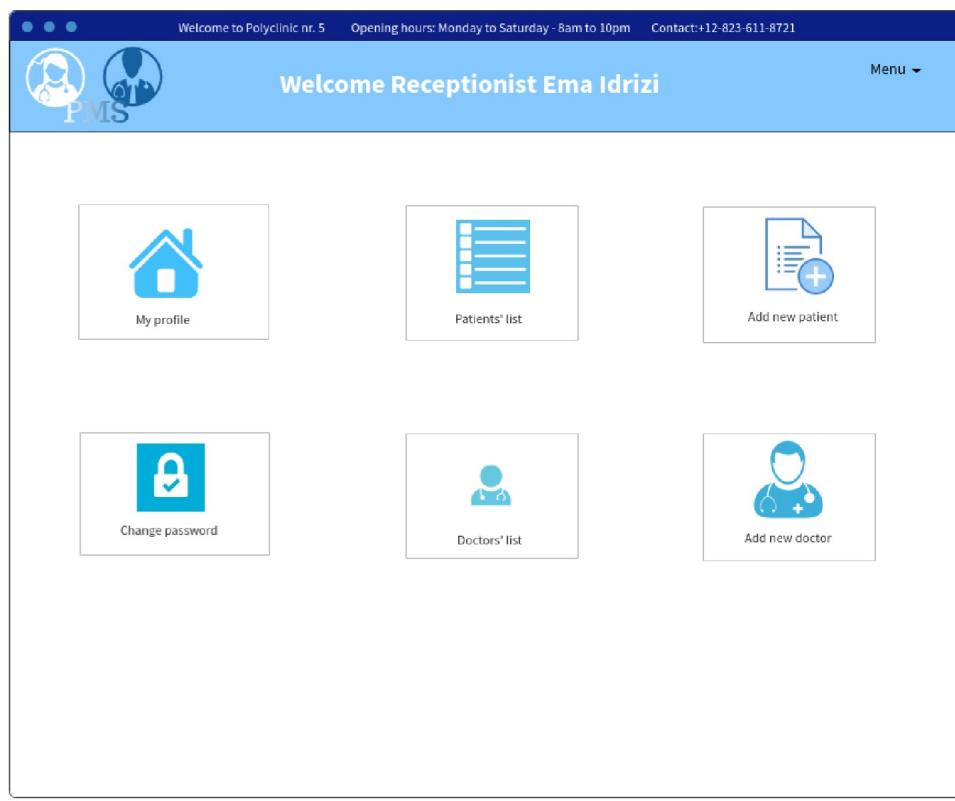
Leave Feedback

This screenshot shows a feedback form titled "Welcome Patient Robert Storms". At the top, there are icons for a patient profile and a doctor, along with the text "Welcome to Polyclinic nr. 5", "Opening hours: Monday to Saturday - 8am to 10pm", and "Contact+12-823-611-8721". A "Menu" button is in the top right. The main area contains a question "How satisfied are u with the medical service?", a wooden ballot box icon labeled "FEEDBACK" with an envelope slot, five colored smiley faces (green, yellow, orange, red, and purple) with radio buttons below them, a text input field for "Comment", and a blue "Leave Feedback" button at the bottom.

### **Detailed Design 13 Leave Feedback**

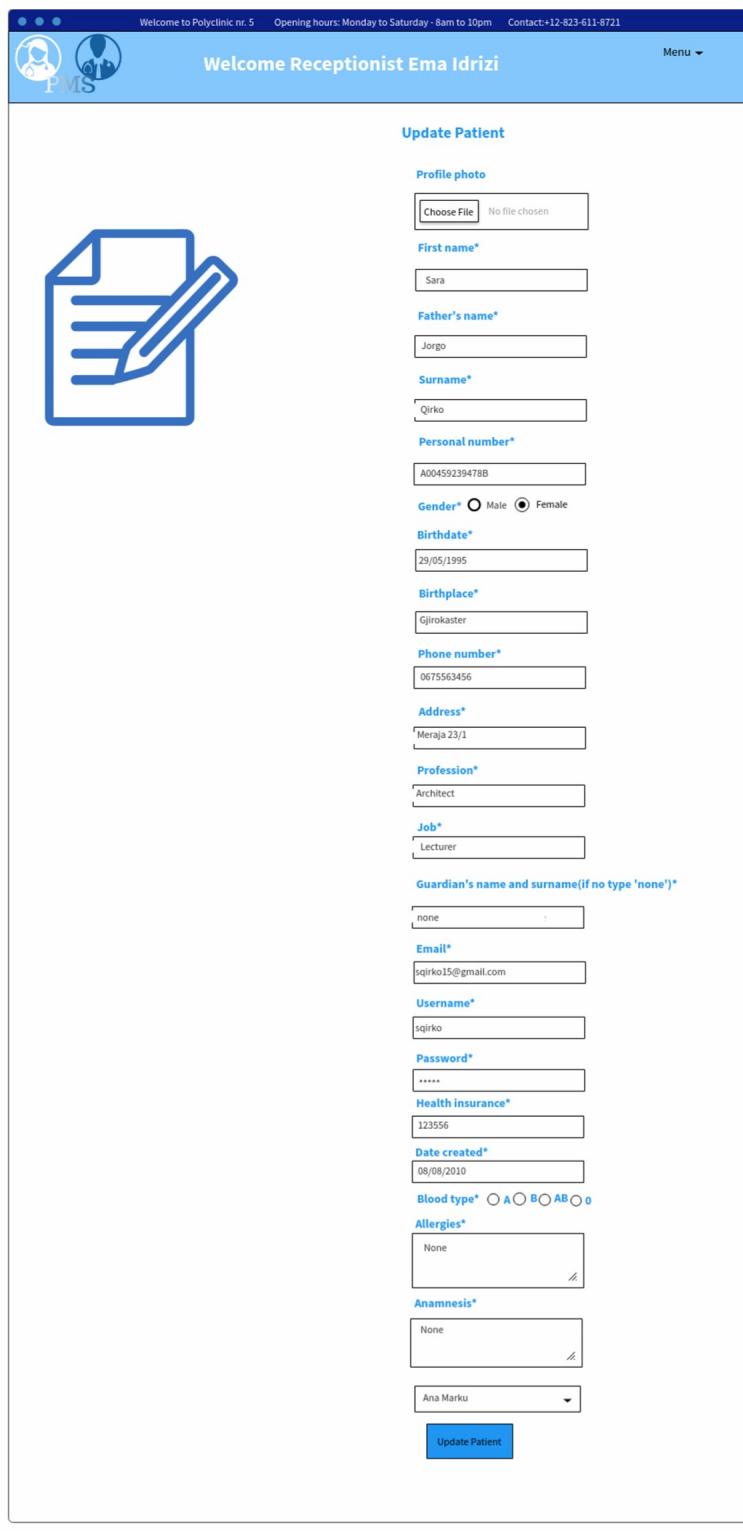
The page in detailed design 13 is shown when “Leave feedback” is clicked from the “Menu” when the user is logged in as a patient.

## PMS Documentation



### Detailed Design 14 Receptionist Home Page

## PMS Documentation



Welcome to Polyclinic nr. 5   Opening hours: Monday to Saturday - 8am to 10pm   Contact: +12-823-611-8721

Welcome Receptionist Ema Idrizi   Menu ▾

**Update Patient**

**Profile photo**

No file chosen

**First name\***

Sara

**Father's name\***

Jorgo

**Surname\***

Qirko

**Personal number\***

A00459239478B

**Gender\***  Male  Female

**Birthdate\***

29/05/1995

**Birthplace\***

Gjirokaster

**Phone number\***

0675563456

**Address\***

Meraja 23/1

**Profession\***

Architect

**Job\***

Lecturer

**Guardian's name and surname(if no type 'none')\***

none

**Email\***

sqirko15@gmail.com

**Username\***

sqirko

**Password\***

\*\*\*\*\*

**Health insurance\***

123556

**Date created\***

08/08/2010

**Blood type\***  A  B  AB  O

**Allergies\***

None

**Anamnesis\***

None

Ana Marku

**Update Patient**

### Detailed Design 15 Update Patient

The page in detailed design 15 is shown when “Update Patient” button in “My Patients” table is clicked. Similar to this page is “Update Doctor” page. Only some fields are different.

## PMS Documentation

The screenshot shows a software application window titled "Welcome Receptionist Ema Idrizi". At the top left is the PMS logo. The top right has a "Menu" dropdown. The main title "Welcome Receptionist Ema Idrizi" is centered above the form. The form itself is titled "Add a new Patient". It contains the following fields:

- Profile photo:** A placeholder box with "Choose File" and "No file chosen".
- First name\***: An input field.
- Father's name\***: An input field.
- Surname\***: An input field.
- Personal number\***: An input field.
- Gender\***: Radio buttons for Male (unchecked) and Female (checked).
- Birthdate\***: An input field for dd/mm/yyyy.
- Birthplace\***: An input field.
- Phone number\***: An input field.
- Address\***: An input field.
- Profession\***: An input field.
- Job\***: An input field.
- Guardian's name and surname(if no type 'none')\***: An input field.
- Email\***: An input field.
- Username\***: An input field.
- Password\***: An input field.
- Health insurance\***: An input field.
- Date created\***: An input field for dd/mm/yyyy.
- Blood type\***: Radio buttons for A (unchecked), B (unchecked), AB (unchecked), and O (unchecked).
- Allergies\***: An input field.
- Anamnesis\***: An input field.
- Select Doctor**: A dropdown menu.
- Add Patient**: A blue button at the bottom.

### Detailed Design 16 Add new Patient

***PMS Documentation***

The page in detailed design 14 is shown when “Add New Patient” button in “My Patients” table is clicked. Similar to this page is “Add New Doctor” page. Only some fields are different.