**Personal Health Information system Problem Description:**

A “community” is defined as a group of families and individuals under the care of a single practitioner. For example: a nurse might be responsible to provide care to one or more individuals across one or more families. Usage for Create Community Profile**:** Joao, the "Ave Maria" school principal in Morro do Borel, Tijuca at Rio de Janeiro, wants to make health accessible for the poor people of the neighborhood. He opens a communitary account in a nearby bank. There, he is well instructed about all the benefits and potential of the PHI system and offer him any assistant he could require. When he returns school, he logs into a dashboard and start completing forms. He will create family profiles as well as individual ones.

***Usage for caregiver system*:** Joao starts answering personnal questions, as well as forms concerning activity habits, diseases, dietary habits, etc. He realizes he will be the caregiver or community health advocate of many people and he is willing to make a good job.

***Usage for Create Family Profile:*** Jane, mother of three young kids, tired of having her child’s sick, decided to focus on keeping them healthy and preventing from illnesses. On the way to work, she drives up to a CitiBank and opens a Health Data Account for her family. She receives a username and password. As soon as she arrives home, she connects to internet and logs on to a dashboard with the UID and password received. Once in the system, she selects the "Create Family Profile" option and start answering questions of all her family members. She is now the "defacto" Chief Medical Officer (CMO) at home and will guard her family health. She will be able to create the individuals profiles of each family member. Jane starts creating her personal profile, answers questions concerning dietary habits, socio-economic level, diseases, etc. She fills out the form as accurate and complete as possible because she knows the importance of her role (CMO). Jane completes relevant home parameters such as Home Location: 124 Ocean Drive, South Beach, Florida. She answers some cooking habits questions: she cooks at home, mostly meat at lunch and vegetables at dinner, usually fruits at desert. She tries to maintain a balanced diet to maintain her children healthy but they not always eat at home. Jane changes her Data Hosting Service Provider. She opens a new account in other retailer. And then she simply loads her family profile she's already created with her previous provider into the new one. She is really happy with this possibility to decide which provider offer the more benefits to her requirements.

Mary, a single middle thirties woman, encouraged by her friend Jane who strongly recommended the PHI system, opens an Individual Health account at Citibank. She is instructed to enter her UID and password in a secure web page and to Create her Individual Profile. She is so excited about the idea of controlling her medical records that, as soon as she arrives home, she starts creating her profile.

**Functional Requirements:**

***FR1: Create Community Profile***

The consumer must be logged on to the system .The caregiver selects "Create Community Profile". The flow goes to existingCommunityProfile use case. It includes CompleteCareGiverInformation use case information details, then the flow goes to FilloutHealthCenterInformation usecase. The caregiver provides health center information. To provide basic demographic information, the caregiver is redirected to CompleteBasic-DemographicInformation usecase. Then SpecifyServices use case is carried out. As the community consists of a group of families, for each family Create Family Profile is mandatory. For this, the system redirects to Create Family Profile page and CreateFamilyProfile use case is carried out. The system displays the community profile information to the caregiver. If no information is shown then the system asks caregiver to refresh the page. The system requests the caregiver to accept the community profile information. If the information provided by the caregiver is wrong, then the system allows the caregiver to edit the wrong information .The caregiver accepts the community profile information. The system storages the community profile information.

*FR1.1: Complete Caregiver Information*

The system asks the caregiver personal questions. The caregiver has already selected "Create Community Profile". The caregiver answers those personal questions. The system checks all mandatory fields are completed. The system shows the information. If all mandatory fields are not completed then the system does not display the caregiver information. The caregiver accepts the information. If all mandatory fields are not completed then the system displays the missing fields to be completed

*FR1.2: Fill Out Health Center Information*

The caregiver has already selected "Create Community Profile". The system asks the caregiver for health center information. The caregiver provides that information. The system checks all mandatory fields are completed. If all mandatory fields are not completed then the system displays an error message. The system requests the caregiver to accept the information. The caregiver accepts the information.

*FR1.3: Complete Basic demographic information*

The system asks the caregiver for basic demographic information on populations served. The caregiver has already selected "Create Community Profile". The caregiver provides that information. The system checks all mandatory fields are completed. If all mandatory fields are not completed then the system displays the missing fields to be completed. The system displays the demographic information. The system requests the caregiver to accept the information. The caregiver accepts the information.

*FR1.4: Specify Services*

The system asks the caregiver for communitary center services specifications. The caregiver has already selected "Create Community Profile". The caregiver provides that information. The system checks all mandatory fields are completed. If all mandatory fields are not completed then the system displays the missing fields to be completed. The system requests the caregiver to accept the information. The caregiver accepts the information.

*FR1.5: Load Existing Community Profile*

The caregiver selects to use other datahosting service provider database to create a community profile. The caregiver has already selected "Create Community Profile". The caregiver has changed her DataHosting Service Provider. The system asks the caregiver to enter the specific database. The caregiver enters the details of her previous datahosting service provider database. If the caregiver enters an invalid datahosting Service Provider database then the system asks the caregiver to enter it again. The system interchanges the information between datahosting Service Providers.

***FR2: Create Family Profile***

The consumer must be logged on to the system. The consumer selects "Create Family Profile". CompleteCMO\_Information usecase is carried out. After filling the information for CMO, the system asks to complete home information. Then CompleteHome\_Information use case is carried out. The system displays the family profile information to the consumer. The system requests the consumer to accept the family profile information. The consumer accepts the family profile information. If there are changes in the information then consumer rejects the family profile information to edit it. The system storages the family profile information.

*FR2.1: Complete CMO Information*

The system asks the consumer for her personal information. The consumer has already selected "Create Family Profile". The consumer provides the information. The system checks all mandatory fields are completed. If all mandatory fields are not completed then the system displays the missing fields to be completed message. The system displays the CMO information. The system requests the consumer to accept her information. The consumer accepts her information.

*FR2.2: Complete Home Information*

The system asks the consumer for few home parameters. The consumer provides the information. The system checks all mandatory fields are completed. If all mandatory fields are not completed then the system asks to complete the missing information. The system displays the home information. The system requests the consumer to accept the information. The consumer accepts her information.

*FR2.3: Load Existing Family Profile*

The consumer has already selected "Create Family Profile". The consumer selects to use other datahosting service provider database to create a family profile. The system asks the consumer to select the specific database. The consumer enters the details of her previous datahosting service provider database. If the consumer enters an invalid DataHosting Service Provider database information then an error message is shown by the system.The system interchanges the information between DataHosting Service Providers.

***FR3: Create Individual Profile***

The consumer must be logged on to the system. The consumer selects "Create Individual Profile". The consumer fills out the required information. The system displays the individual profile information to the consumer. The system requests the consumer to accept the individual profile information. The consumer accepts the individual profile information. If the individual profile information is wrong then the system allows the consumer to edit the wrong information. The system storages the individual profile information.

*FR3.1: Answer Personal Questions*

The consumer has selected "Create Individual Profile". The system asks the consumer personal questions. The consumer answers those personal questions. The system checks all mandatory fields are completed.

If all mandatory fields are not completed then the system displays the missing fields to be completed. The system displays the consumer personal information. The system requests the consumer to accept the information. The consumer accepts her information.

*FR3.2: Generate Nutritional Profile*

The consumer has already selected "Create Individual Profile". The system asks the consumer questions about her physical condition as well as nutrition habits. The consumer answers the questions. The system checks all mandatory fields are completed. If all mandatory fields are not completed then the system displays the missing fields to be completed. The system displays the consumer physical condition information with eating habits. The system requests the consumer to accept the information. The consumer accepts the information.

*FR3.3: Complete Activity Habits*

The consumer has to be logged in "Create Individual Profile". The system asks the consumer questions about her activity habits. The consumer answers the questions. The system checks all mandatory fields are completed. . If all mandatory fields are not completed then the system displays the missing fields to be completed. The system displays the consumer activity habits information. The system requests the consumer to accept that information. The consumer accepts the information.

*FR3.4: Complete Previous Condition Information*

The consumer has to be logged in "Create Individual Profile". The system asks the consumer questions about her previous conditions. The consumer answers the questions. The system checks all mandatory fields are completed. If all mandatory fields are not completed then system asks to complete the information by filling up the missing fields. The system displays the consumer previous condition information. The system requests the consumer to accept that information. The consumer accepts the information.

*FR3.5: Complete Family Parameters*

The consumer is already logged in "Create Individual Profile".

The system asks the consumer questions about her family. The consumer answers those questions. The system checks all mandatory fields are completed. The consumer can leave answering the non-mandatory questions. If all mandatory fields are not completed then an error message is occurred to complete the remaining mandatory fields to proceed. The system displays the consumer family information. The system requests the consumer to accept the information. The consumer accepts that information.

*FR3.6: Complete Environmental Parameters*

The consumer should have access to "Create Individual Profile". The system asks the consumer questions about her environment. The consumer answers the questions. The system checks all mandatory fields are completed. If all mandatory fields are not completed then system asks to complete the information by filling up the missing fields. The system displays the consumer environment information. The system requests the consumer to accept the information.The consumer accepts the information. If the consumer rejects the information then the system allows to edit the information.

*FR3.7: Assign Permissions*

The consumer must be logged in with "Create Individual Profile". The system asks the consumer which person will have access to manage her individual profile. The consumer completes the "authorization" form. The system checks all mandatory fields are completed. If all mandatory fields are not completed then consumer is asked to complete them to proceed. The system displays the access list permissions. The system requests the consumer to accept the information. The consumer accepts the information. If the consumer rejects the information then the system displays the missing fields to be completed.

*FR3.8: Scan Records*

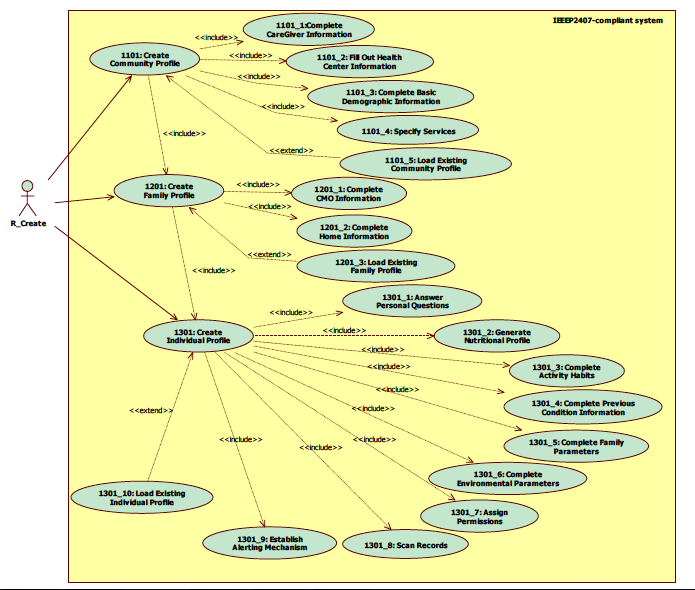
The consumer must be logged in with "Create Individual Profile". If the consumer is not logged in with "Create Individual Profile then an error message is occurred. The consumer scans her paper-based records. The consumer uploads the scanned records into the system. The system displays all the filled information.

*FR3.9: Establish Alerting Mechanism*

The consumer should select "Create Individual Profile" before proceeding. The system asks the user about the alerting mechanism she prefers. The consumer establishes the alerting mechanism she will receive (passively or actively).

*FR3.10: Load Existing Individual Profile*

The consumer has already selected "Create Individual Profile". The consumer selects to use other datahosting service provider database to create an individual profile. The system asks the consumer to select the specific database. The consumer enters the details of her previous datahosting service provider database. If the consumer enters an invalid DataHosting Service Provider database then the system asks the consumer to enter it again. The system interchanges the information between DataHosting Service Providers.

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