

Family Doctor Problem Analysis and Design Document

Version 1.0

15 March, 2017

Developed by:

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934, 2016-2017

Version History

| Version | Description of Change | Author | Date |
|---------|------------------------------|--------------|-------------------|
| V01 | Initial/Modification of | Student Name | 27 February, 2017 |
| | | | |

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Analysis and design Document

1 Functional Requirements

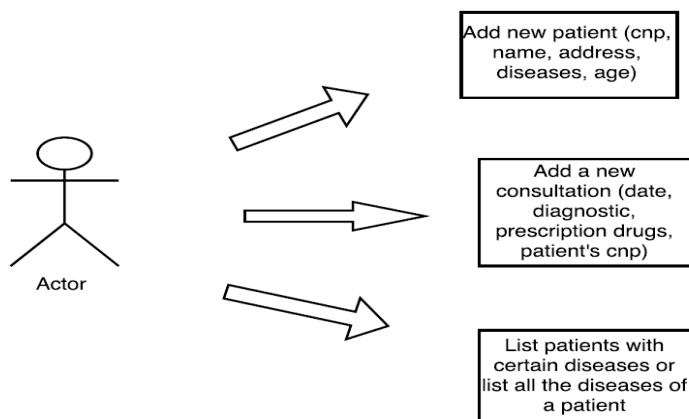
List the functional requirements (FR) of the system.

| Section/ Requirement ID | Requirement Definition |
|----------------------------|--|
| FR1.0. | The system shall manage the patients of a family doctor. |
| FR1.1 | The system shall add/create a new patient. |
| FR1.1.1 | The system shall add/create a new consultation. |
| FR1.1.2 | The system shall list some data by certain criteria. |

2 Actors

- The family doctor

3 Use cases – diagram



3.1 Use case number 1 (Adding a patient)

Actors: Doctor

Description: Add a patient

Precondition: -

Postcondition: -

| User action | System response |
|---|---|
| 1 Completes the necessary fields for adding | |
| | 2 Checks if everything is allright, adds the patient in the database. |
| 3 - | |

Exceptions: When the fields aren't filled.

3.2 Use case number 2 (Adding a consultation)

Actors: Doctor

Description: Add a consultation

Precondition: -

Postcondition: -

| User action | System response |
|---|---|
| 1 Completes the necessary fields for adding | |
| | 2 Checks if everything is alright, adds the consultation in the database. |
| 3 - | |

Exceptions: When the fields aren't filled.

3.3 Use case number 3 (List patients by diseases)

Actors: Doctor

Description: List patients

Precondition: valid patients

Postcondition: -

| User action | System response |
|---|--|
| 1 Selects the disease by which the listing should be done | |
| | 2 Returns the patients who have that disease |
| 3 - | |

Exceptions: -.

4 Analysis

4.1 Entities

Patient, Consultation

4.2 Relations between entities

A patient has more consultations.

4.3 Attributes

A patient has a name, a SSN and an address.

A consultation has a patient's SSN, a diagnostic, medication and date.

4.4 System behavior

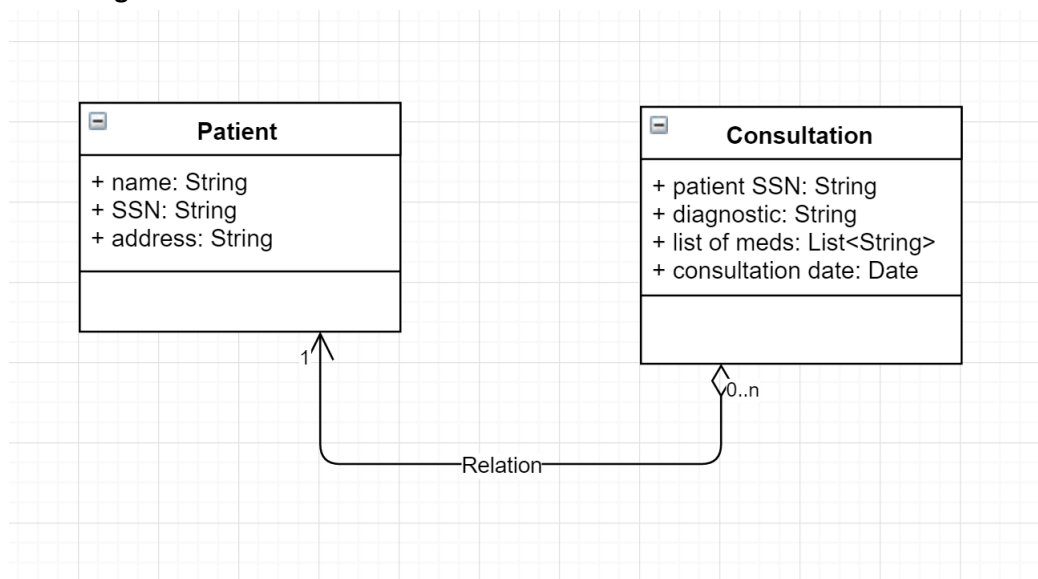
4.4.1 Use case 1-2-3

The system will probably act as a subsystem to a larger environment, in order to speed up a certain process in the company's workflow.

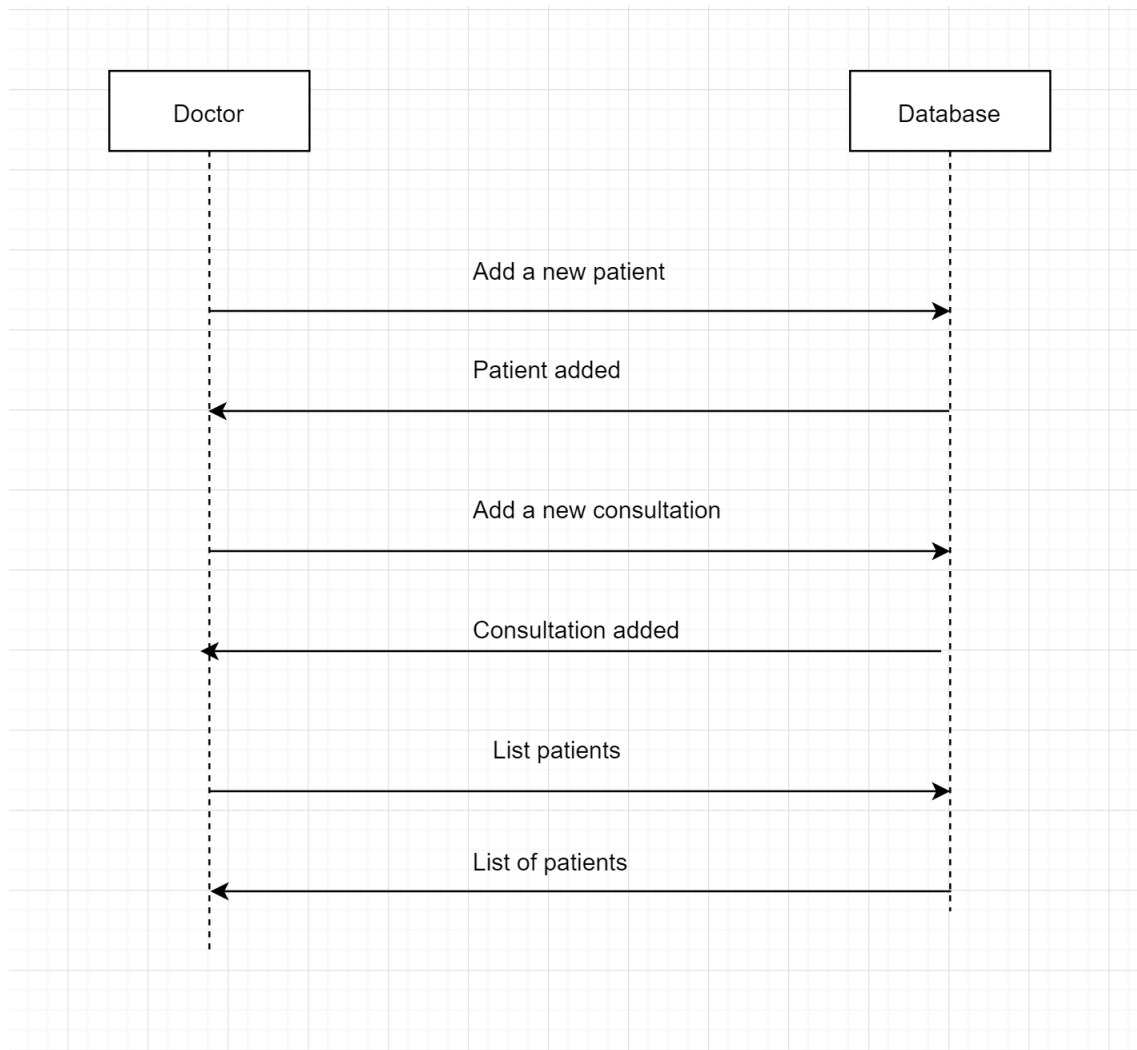
4.5 System events

5 Design

5.1 Class diagram



5.2 Sequence diagrams (for each use case)



5.3 GRASP