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| --- |
| Software Engineering Project |
| Electronic Health Record System |
| Requirements Report |
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# Introduction

The lately technological improvements in information technology (IT) have made a great impact on medical organizations. Today, health information systems are used in virtually every hospital. Health information technologies are used mainly to increase efficiency, quality of service and to reduce costs in hospitals.

*Electronic Health Record System* will provide the doctors and their staff with an electronic copy of the patient file. Personal information and medical information about the patient will be stored and managed by the system. Medical information may consist of any health related information related to a patient. Some important medical information the system supports can be listed as examinations, patient stories, symptoms, tests (blood, urine, etc.), diagnosis, treatments and prescribed medications. The system will also be able to assist physicians in diagnosing and treating a patient by providing diagnosis and treatment recommendations according to the provided information, remind patients of an upcoming event (any appointment, periodic check-up, periodic test, etc.) by sending emails or notifications and track information for billing purposes.

In this document, we specify the stakeholders and the requirements of the system that will be implemented.

# Identification of Viewpoints

## Principal Viewpoints of the System

### Interactor Viewpoints

|  |  |
| --- | --- |
| Viewpoint | Description |
| Doctor |  |
| Patient |  |
| Pharmacist |  |
| Laboratory |  |
| Radiology Expert |  |
| Hospital Kitchen |  |
| Registration and Admission Department |  |

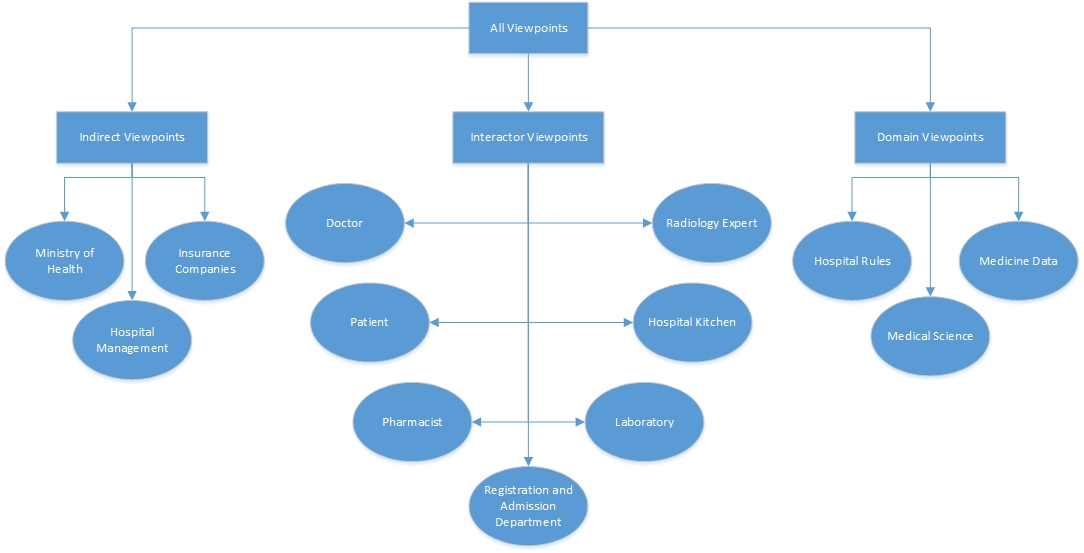
### Indirect Viewpoints

|  |  |
| --- | --- |
| Viewpoint | Description |
| Hospital Management |  |
| Ministry of Health |  |
| Insurance Companies |  |

### Domain Viewpoints

|  |  |
| --- | --- |
| Viewpoint | Description |
| Medical Science |  |
| Hostpital Rules |  |
| Medicine Data |  |

## Viewpoint Hierarchy Diagram



## Requirements of each Viewpoint

### Requirements of the Interactor Viewpoints

|  |  |
| --- | --- |
| Viewpoint | Requirements |
| Patient |  |
|  |
| Doctor |  |
|  |
| Pharmacist |  |
|  |
| Laboratory |  |
|  |
| Radiology Expert |  |
|  |
| Hospital Kitchen |  |
|  |
| Registration and Admission Department |  |
|  |

### Requirements of the Indirect Viewpoints

|  |  |
| --- | --- |
| Viewpoint | Requirements |
| Hospital Management |  |
|  |
| Ministry of Health |  |
|  |
| Insurence Companies |  |
|  |

### Requirements of the Domain Viewpoints

|  |  |
| --- | --- |
| Viewpoint | Requirements |
| Medical Science |  |
|  |
| Medicine Data |  |
|  |
| Hospital Rules |  |
|  |

# Requirements Definition

## Functional Requirements

## Non-Functional Requirements

## Domain Requirements

## Volatile Requirements

## Enduring Requirements

# Requirements Interviews with Domain Experts

# Requirements Prioritization and Negotiation

# Requirements Traceability Matrix

# Use Cases of Main Scenarios

# Domain Model

# Other Schemas