  
  
Department of Electrical and Computer Engineering

**COEN 6312 – Model-Driven Software Engineering**

Winter 2019

**Deliverable 1**

**Name of the team:** **ALPHA**

**Selected system: Hospital Management System**

**Mission & Vision:**

We intend to design and develop an efficient hospital management system using a model driven approach with minimum process gaps.

**Team Members:**

* **Jasmine Kalra** (40054401).*Email:*  [*jas18kalra@gmail.com*](mailto:jas18kalra@gmail.com)

I have a professional experience as a software developer for 3 years at Ericsson India. I was involved in delivering end to end software solutions and collaborated with clients during requirement gathering.

* **Dhruv Bhalodi** (40046441). *Email:*  [*bhalodi.dhruv@gmail.com*](mailto:bhalodi.dhruv@gmail.com)

I have a professional experience as a software developer for 5 years at Deloitte touche tohmatsu LLC.

* **Debanjana Bhattacharyya** (40050402). *Email:* [*iamdebanjana@gmail.com*](mailto:iamdebanjana@gmail.com)

I am pursuing master’s in Software Engineering as I aim to become a better Software Engineer. I completed bachelor’s in Computer Science and Engineering which interested me further to pursue masters and gain more knowledge in this field. I have strong interest in problem solving and technologies.

* **Rakshitha** (40057170). *Email:* [*rakshitha13ram@gmail.com*](mailto:rakshitha13ram@gmail.com)

Has worked as a software developer for 2 years at Mindtree Ltd., also has been trained in automation testing.

* **Nikhil Vijayan** (40057171). *Email:*  [*nikhil321vijayan@gmail.com*](mailto:nikhil321vijayan@gmail.com)

Proficient in Java, C# and SQL. Novice in UML and OCL. I have an experience of 2 years as a .NET developer. I’ve also worked with Sitecore 7 as a Content Developer.

* **Cheng Cheng** (29718648). *Email: chengcheng.study@gmail.com*

Cheng's Major is Software Engineering and she has experience with Java, Python ,R,PHP and JavaScript. She worked with Automation Testing, Machine Learning and Web programming with Spring, WordPress and NodeJS.

**Description:**

We intend to develop a Hospital Management System which let the patients book an appointment with the doctor and maintain all the logistics and inventory related information. The following roles would be available in the system:

* Doctors: The list of doctors with their availability.
* Emergency doctors: The list of emergency doctors with their availability.
* Replacement doctors: Their availability.
* Appointments: It will store the appointment details.
* Nurses: The list of nurses with their availability.
* Patient: The patient information as well as their status as in patient/ out patient
* Patient insurance: Whether the patient is insured or not (would cover the medical bills or not)
* Equipments: The list of equipments, their number and availability.
* Staff: Includes janitors and other helpers
* Medicines: Categories of medicines and their availability.
* Wards: The ward details with the availability.
* Receptionist: To schedule appointments, file insurance forms and medical reports.
* Technician: To repair or assist in using the equipments.
* Bed allotment: Based on the availability and the ward to which a patient gets assigned.
* Ambulance services: Stores the number of ambulances available and the number of ambulances currently assigned.