

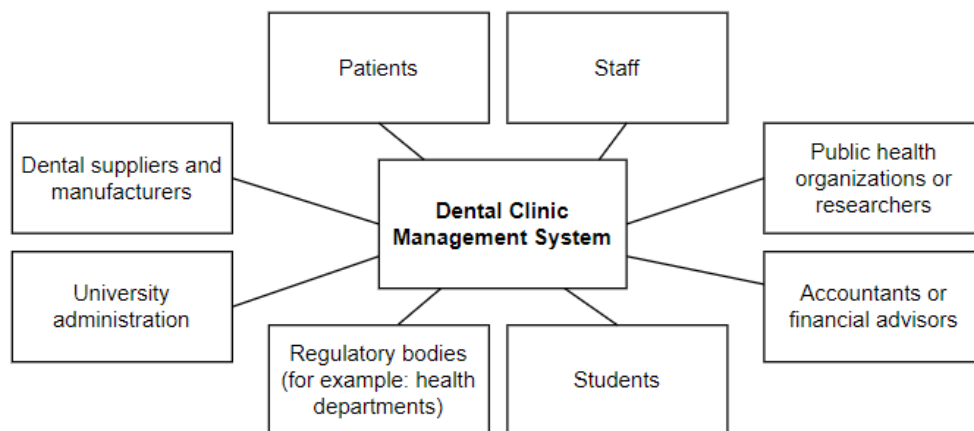
### **Software Engineering Project – Phase III: Software design and modeling.**

The purpose of this document is to present an abstract development of some models of the system, each one representing some different views and perspectives of the system. These system models are used to understand the functionality of the system as well as to communicate with customers. We will be working with models for a new system as there is not an existing one, and these models will be used to help explain the proposed requirements to other system stakeholders.

In this document, some graphical models are displayed with the purpose of facilitating more discussion about a proposed system, documenting some existing ideas about the system and generating a more detailed description that can be used to generate a system implementation.

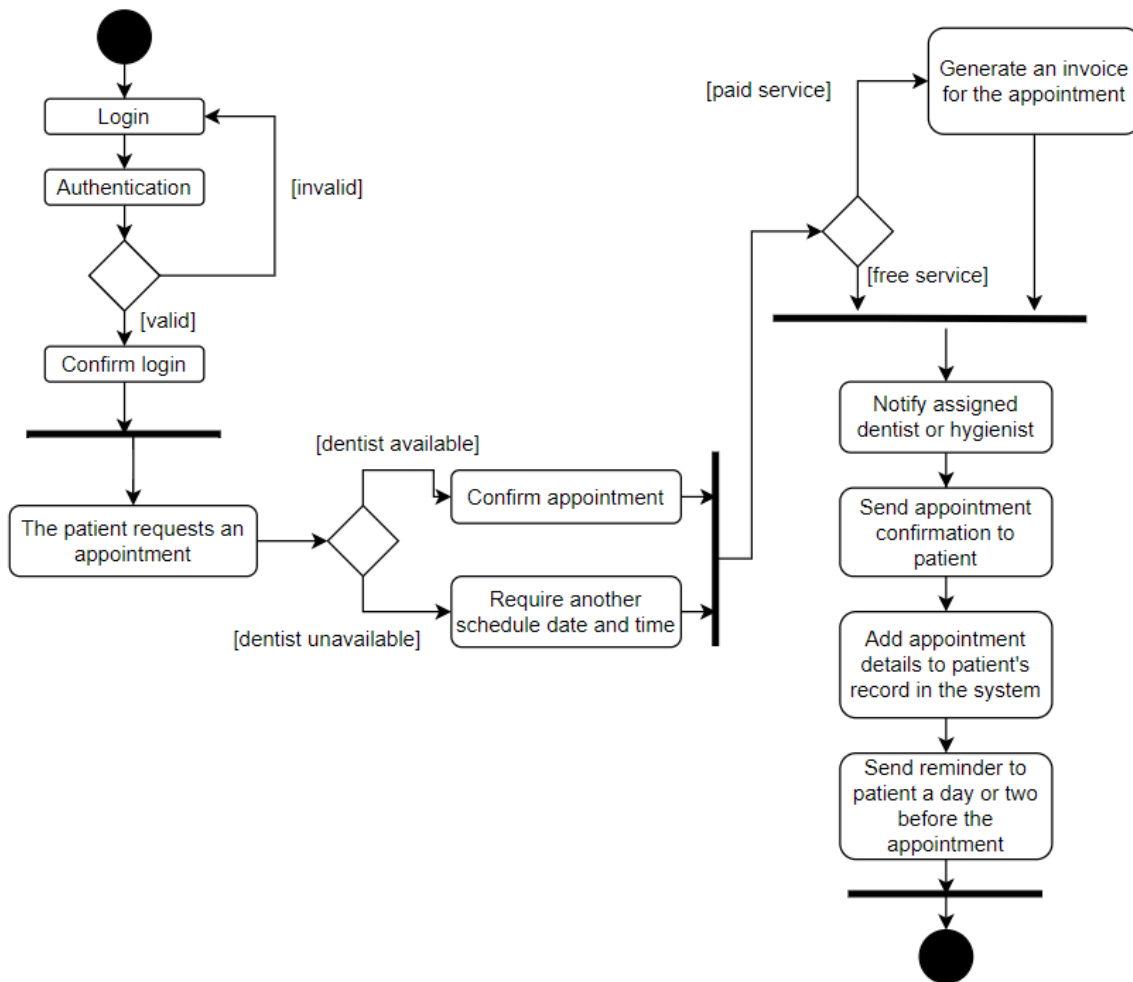
#### **Context Model**

A context diagram is a high-level view of a system. It's a basic sketch meant to define an entity based on its scope, boundaries, and relation to external components like stakeholders. As we have also specified in the previous parts of the project, in this system we will not be relying in other systems to process or gather data, therefore outside the system boundaries we can see the stakeholders.



#### **Activity Diagram**

The activity diagram depicts the process flow of a patient visiting a dental clinic, from logging in to the system, scheduling an appointment with a dentist, and being notified of upcoming dental treatment. The diagram shows the different activities and decision points involved in the process, such as checking dentist availability, selecting the time dentist, and confirming the appointment. It also illustrates the flow of information between the patient, the clinic, and the dentist, as well as the roles and responsibilities of the different stakeholders in the process. Overall, the activity diagram provides a clear and visual representation of the steps involved in the clinic's appointment scheduling and treatment process.



### Use Case Diagram

The use case diagram represents the various actions that can be performed by different actors in the dental clinic management system. The actors include the patient, the staff, the student and the administrator. Each of these use cases has different functionalities and is associated with different actors. The use case diagram provides an overview of the functionalities of the system and the interactions between the actors and the system.

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