System Requirements

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Document listing all of the major system requirements. These are separated into function and non-functional requirements. Each is given a code for future mapping in use cases and other forms of documentation.

1. Functional Requirements

These are requirements related to functionalities that will need to be available to the system's users. Our system's functional requirements are:

[*FR1*] – Users can send messages in a conversation with other users.

[*FR2*] – Users can define the topic (category) that is being discussed at the moment.

[*FR3*] – Users can reply to previous messages.

[*FR4*] – Users can change the topics related to a message, or group of messages.

[*FR5*] – Users are able to identify who sent each message.

[*FR6*] – Users are able to identify what topic each message is related to.

[*FR7*] – Users are able to identify when each message was sent.

 [*FR8*] – Users can access their respective chats via "magic links" that automatically authenticate them.

[*FR9*] – Users can access different conversations they are a part of, via different "magic links".

2. Non-functional Requirements

These are requirements related to the system's infrastructure and certain qualities that its use may have. Our system's non-functional requirements are:

[*NFR1*] – System information is stored in a MongoDB database.

[*NFR2*] – System is available online, as a web application.

[*NFR3*] – User authentication to a specific chat via requested URL.

[*NFR4*] – Front-end interface is separated from back-end functionality, which is structured in a service-based architecture.

[*NFR5*] – System should have a response time of under 1 second.