**CSC 431**  
  
**<Project Name>**  
  
  
**System Architecture Specification (SAS)**

**<Team number>**

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| <Member Name> | <Role> |
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**Version History**

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author(s)** | **Change Comments** |
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**1.** **System Analysis**

1. **System Overview**

*<Describe the system in brief and your architecture choice>*

* + - 1. **System Diagram**

*<Insert System Diagram>*

* + - 1. **Actor Identification**

*Actors would be users on discord/slack or type in commands for the bot. User's commands would be used to pull covid data from the John hopkins database, pull news source information, and provide a help page to understand how the bot works.*

* + - 1. **Design Rationale**
         1. **Architectural Style**

*We are using an event driven architecture. In our model the event producers and event consumers are the same person. That is because the User will type in a command for the specific data set they would like and the bot would retrieve that data set back to the user. This would also apply to the user's ability to find data source information and help pages.*

* + - * 1. **Design Pattern(s)**

*We used the command design pattern which is a type of behavioral design pattern. This fits our project because it requires user based commands to find and show data.*

* + - * 1. **Framework**

*No framework used*

* + 1. **Functional Design**

*<Identify all significant workflows as sequence diagrams using the following format>*

* + - 1. **Diagram Title**

* + 1. **Structural Design**

*<Identify all components and model them using class diagrams>*