SE 4485: Software Engineering Projects

Spring 2024

Architecture Documentation

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| --- | --- |
| Group Number |  |
| Project Title |  |
| Sponsoring Company |  |
| Sponsor(s) |  |
| Students | 1.  2.  3.  4.  5.  6. |

# TITLE PAGE

# ABSTRACT

* brief summary of the entire document

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# LIST OF FIGURES

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# INTRODUCTION

* introduction to the entire document
* purpose and scope of the document
* description of the structure of the document

# ARCHITECTURAL STYLE(S) USED

* how does the architecture support various features of your application

# ARCHITECTURAL MODEL

* use packages stereotyped as subsystems <<subsystem>>
* no classes in the architectural model

# TECHNOLOGY, SOFTWARE, AND HARDWARE USED

* describe the technology used for implementing this project
* list all software and hardware required to support the technology
* explain the communication between application server and database server

RATIONALE FOR YOUR ARCHITECTURAL STYLE AND MODEL

TRACEABILITY FROM REQUIREMENTS TO ARCHITECTURE

* provide a mapping between requirements and architecture
* clearly describe how each requirement in the *Requirements Documentation* is captured in the architecture
* **Perform Search:** The View allows the user to type in their search, while the Controller calls to the Model to gather information related to the search.
  + **Validate Query:** The Model, given the search query by the Controller evaluates the keywords, and then reaches out to the database to find relevant information.
  + **Display Search Results:** With the information gathered by the Model, the Controller organizes and passes this information so that it may be displayed to the user through the View.
  + **Handle No Results Found:** If the Model is unable to find any relevant information to the user’s search, the Controller is given an error message, that will then be displayed through the View to the user.
* **View Search Result Details:** The user can opt to view further information related to a search result presented on the View. Doing so will cause the Controller to retrieve further information from the Model to be displayed on the View.
  + **Select Search Result:**
  + **Display Detailed information:**
* **Save and Retrieve Saved Searches\*:**
* **Reattempt Search for Updated Results\*:**
* **User Feedback Submission:** The user can select a button provided by the View to provide feedback on the search results or other features of the application. Once the user submits their feedback the Controller sends this information to be stored in the Model’s database.

EVIDENCE THE DOCUMENT HAS BEEN PLACED UNDER CONFIGURATION MANAGEMENT

ENGINEERING STANDARDS AND MULTIPLE CONSTRAINTS

* students should work with their project sponsor(s) to identify all the standards and constraints that should be applied for preparing this document

ADDITIONAL REFERENCES

* include other related references that are not included the section above