

# Report Name

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## ABSTRACT

Provide a concise summary of the design of the application

## 1. AIM OF APPLICATION

- What is the purpose of the application?
- Eg. The application is an academic search engine called AcaSe and is based upon the PuppyIR Framework[?], which has been used to construct other such services[?, ?]. The main purpose of this web application is to provide a customized interface to services such as Google Scholar and MS Academic Search.
- What are the assumptions about the aims and objectives?
- Describe the design goals and objectives of the application.
- What are the constraints of the project?
- Functionality List: i.e. what is the required and desired functionality?
- Reflective Questions:
- Is the scope of the application appropriate?
- Are the design goals realistic/achievable?
- How complex is the application?
- Is distribution across the web appropriate?

## 2. CLIENT INTERFACE

- Draw a wireframe of the user interface
- this may require several wireframes depending on the complexity of the application and the interfaces
- Describe the user interface.
- i.e. Label key input and output components: describe them.
- Provide a Walkthrough and explain the user interactions with application.

- i.e. use cases
- Describe the interactions associated with the dynamic components on the user interface.
- What calls are required to dynamically update the data on the client side?
- How does the user interface help the user achieve their goal, or complete their task?
- Is the user interface intuitive, appealing, usable, etc?
- What technologies are used on the client side?
- What are the reasons for your choices? i.e. what is the advantages and disadvantages of using this technology?
- What other options are there?

## 3. APPLICATION ARCHITECTURE

- N-Tier Architecture Diagram
- i.e. data flow diagram between the interface/client, middle ware, and backend services/data repos
- Describe the data model i.e. what data needs to be stored or persisted by the application?
- What are the relationships within the data model.
- i.e. use ER diagram and explain.
- Describe the backend services used (if any).
- Reflective Questions:
- How have you ensured that there is a separation of concerns?
- What other technology could have been used instead of django?
- What are the advantages of using a Web Application Framework over other technology?
- And, what are the disadvantages?

## 4. MESSAGE PARSING

- On the architecture diagram, Identify and label the main messages that will be parsed through the application.
- or alternatively (and preferably) include sequence diagrams to denote the sequence of communications parse between clients and servers.
- Describe the messages that are parsed back and forth through the application.
- For the main transactions - describe the payload of the messages
- i.e. What are the contents of the messages? i.e. include sample XML, XHTML, JSON, etc of one or two messages.
- What is the format of the messages?
- Why this format?
- What other formats could be used, what are the advantages and disadvantages of these other formats?

## 5. IMPLEMENTATION NOTES

- Views - What are the main views that you have implemented and what do they do?
- URL Mapping Schema - what is your URL mapping and schema?
- External Services - what external services does your application include and what handlers did you include?
- Functionality Checklist (which functionality is completed)
- Known Issues (what kind of works, what kind of errors to do you get)
- What technologies have been used and are required for the application. Include a list or table of all the technologies, standards, and protocols that will be required.

## 6. REFLECTIVE SUMMARY

**For the Implementation Report Only:**

- What have you learnt through the process of development?
- How did the application of frameworks help or hinder your progress?
- What problems did you encounter?
- What were your major achievements?

## 7. SUMMARY AND FUTURE WORK

- Summary of application and its current state.
- Include a list or table of all the technologies, standards, and protocols that will be required.
- What are the limitations?
- Plans for future development

## 8. ACKNOWLEDGEMENTS

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