

FIT5136 Software Engineering

Client Informal Description of “Conference Management System (CMS)”

Monash Conference Centre (MCC) has asked you to develop a Conference Management System (CMS). MCC will organise conferences and look for a professional and efficient CMS system.

This system will be used for the following functionalities:

- User Registration
- Conference Management
- Paper Submission
- Review Management
- Conference Administration

Feature 1: User Registration

- The system should allow users (chair, reviewer, and author) to create their accounts and login using email and password.

Feature 2: Conference Management

- The chair of a conference can submit conference information: e.g. name, title, topics, etc
- The chair can set and modify the deadline for paper submission and paper review
- The chair can send review notification to all authors
- The system should allow the chair to make the final decision on accepting or rejecting a specific paper based on the reviews.

Feature 3: Paper Submission

- The system should allow authors to upload the full paper in a specific format (e.g. PDF file or Word file).
- The authors must provide the system with relevant topics areas (or keywords) of the papers when they submit papers
- If a paper is submitted after the deadline, the system will reject it.

Feature 4: Review Management

- The system should allow reviewers to specify the topics that fall into his/her area of expertise.
- The system should allow the chair to assign reviewers to papers
- The number of reviewers for a paper must be limited to 3 or 4.

- The system should allow a reviewer to submit an evaluation of a paper that was assigned to him/her
- It will be great if a paper is automatically assigned to reviewers that have strong expertise about the topics of the paper.

Feature 5: Conference Administration

- The system must allow the admin to retrieve information about the registered users.
- The system must allow the admin to retrieve information about the registered conferences.
- The system must allow the admin to retrieve information about the submitted papers and their status (being reviewed, notified, etc).
- For each paper, the admin must be able to see the details about reviewing and final outcome.

Technical Requirements

You have two options to choose from:

Option 1: Text-based application

1. Programming Language

- Java (Core Java)
- Python (Basic)

2. IDE requirements

Java

- IntelliJ (recommended)
- VS Code
- NetBeans
- Eclipse
- Blue J (not encouraged)

Python

- PyCharm
- VS Code
- Anaconda (accepted for initial learning/production; final delivery must be done using PyCharm)

3. Database

You can store data into any of the following files:

- CSV file
- Text file
- Excel file

Option 2: Desktop-based application

1. Programming Language

- Java
- Python

You can use any external libraries, extensions, etc

2. IDE requirements

Java

- IntelliJ (recommended)
- VS Code
- NetBeans
- Eclipse

Python

- PyCharm
- VS Code
- Anaconda (accepted for initial learning/production; final delivery must be done using PyCharm)

3. Database

You can store data into any of the following files:

- CSV file
- Text file
- Excel file