

Project: Open Review Conference Management Software

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Faculty Sponsor: Dr. Silaghi

Client: Dr. Silaghi and Open Conference hosts such as IEEE

Meeting Dates with Client: Every first Friday of the month at 4pm EST

**Goal and Motivation:** The overall goal of this proposed project is to establish a database system and portal (most likely a web portal) so that academics may submit their articles for peer revision under single blind, double blind, or no blind review before an academic conference is held. The documents will be submitted to the database through the portal and split up based on their review type and distributed to the reviewers. It will also auto generate the conference proceedings, or order in which papers are to be presented. The motivation behind this project is that there currently exists no system such as this for conference management, thus constructing a system such as this will greatly increase the efficiency of a process that is currently being done manually by individuals prior to the conference taking place.

**Approach:** construct a web portal for reviewers and paper applicants to send their papers into. The program must inform reviewers of a paper bidding session, in which reviewers will be able to vote on which papers they wish to review through the portal. After paper bidding is completed the papers will be distributed to reviewers following the single, double, and no blind restrictions. After reviews are completed said reviews should be submitted to the database and the convention schedule should be autonomously generated.

**Novel features/functionalities:** A bidding system to allow papers/convention spots to be bid on and won. A review system that assigns reviewers to submitted papers reviews. A feature that allows for open communication between the reviewer(s) and the author of the paper. A tracking system that allows the author to know where their paper is at during the review process. A streamlined system that allows for easy submission of papers. A system that automatically creates a schedule for the convention.

**Technical challenges:** Web portal creation will be challenging since we have limited experience with creating interactive web pages using javascript or other web platform languages. Creating a database and or cluster to manage incoming data flow.

**Milestone 1:**

1. Compare and select technical tools for Angular, Node, and Typescript
2. Provide small demos for Language of choice, website functionality, database interaction with website

3. Resolve technical challenges: Learning and developing Javascript, and developing multiple connected web pages
4. Compare and select documentation, presentation, and task calendar tools
5. Generate a Requirements Document
6. Create a Design Document
7. Create a Test plan

Milestone 2:

1. Implement, test, and demo initial web page connection
2. Implement, test, and demo paper submission

Milestone 3:

1. Implement, test, and demo paper bidding system
2. Implement, test, and demo conference schedule creation

Task matrix:

Task	Ian Swire	Charles Taaffe
Perform Background Research	50% look at similar style pages that have bidding systems	50% look into similar web pages that accept documents such as turnitin
Compare and Select Technical Tools	50% Look into typescript web development	50% Look into javascript web development
Hello world demos	50% develop hello world in typescript	50% Develop hello world in javascript
Create Requirements Document	30% Generate models to match the use case and scenarios	70% Generate use cases, requirements, and scenarios
Create Design Document	60% generate a flow diagram to illustrate system functionality and or interactions	40% type out brief description of models and conclusion
Create Test Plan	50% generate tests plan based on design document model	50% assist in generating test plan based on design document model
Develop initial webpage	70% develop initial web page in chosen language	30% test web page and its functionalities
Develop paper submission page	30% test paper submission and types of documents	70% develop web page to allow users to submit

	accepted	academic papers for review
Develop paper bidding system	70% develop a web page to allow reviewers to bid on papers and collect paper bidding information	30% test paper bidding functionality and results
Develop conference schedule creator	30% test conference planning algorithm against other potential algorithms	70% develop conference planning algorithm and display the schedule to a newly developed page

- "I have discussed with the team and approve this project plan. I will evaluate the progress and assign a grade for each of the three milestones."
- Signature: \_\_\_\_\_ Date: \_\_\_\_\_