

Informatics Institute of Technology  
In Collaboration with  
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**'Find Your Space'**  
**A venue recommending system to aid event  
organization using Natural Language  
Processing**

W. K. MINOLIE FERNANDO  
2014082

Supervisor: Cassim Farook

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Department: Computer Science

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## **Abstract**

Venue is the one of the most important factors in organizing an event. It has the biggest impact to the budget of any event. Requirements for events differ from each other.

In Sri Lanka, there is a lack of a proper online medium dedicated to venues that could be searched by event organizers. For venue owners, there lacks a proper medium, of publishing spaces such as halls, open spaces, gardens and rooftops.

A unique online marketplace is proposed in this research the marketplace will enable owners to enlist their spaces. Natural language processing is implemented to search for spaces.

The marketplace was built using a Spring boot backend with Spring Security and an Angular2 frontend. RESTful APIs have been used with Spring JPA with a MySQL database to fetch data. The application uses Natural Language Processing to read user search results to match and display the best matched venues.

Software tests such as unit tests, module tests integration tests, usability tests, load and performance tests were performed on the application.

The implemented project was successfully evaluated by operational stakeholders to gauge the success of the project and was rated and accepted. Future enhancements were noted and will be included in the future.

## **KEYWORDS**

Natural language processing, Natural language generation, Collaborative filtering, Social recommendation, Recommender systems