

## Abstracts

### Southeastern Louisiana University

#### Oral Presentations

##### *Helpful Neighbor*

**Autumn Kennedy, Payton Laskie, & Kaitlyn Hayes**

Faculty mentor: Bonnie Achee, PhD

Helpful Neighbor is a web application development project that focuses on alleviating homelessness in Louisiana. The purpose of this project is to provide a user-friendly web application with a target audience of homeless individuals in Louisiana. This goal is achieved through distribution of resources. The application will focus on a map feature that allows the user to find locations of local resources like food banks, homeless shelters, treatment centers (for mental health, substance abuse, etc), donation centers, and more. Access to and knowledge of resources is the first step in lessening the impact of homelessness on individuals and the community. This web application is using Microsoft .Net as a framework and React Native for its UI software framework. The back-end is being developed in the language C#, while the front-end of the app is using Typescript. Once deployed, the application will first be available on the android platform and then IOS as the following platform.

Oral session 3E

##### *Exploring Web App Development with Docker—A Popular Container-Based Virtualization*

**Sujana Mehta**

Faculty mentor: Dr. Minh Huynh

This presentation will provide a brief introduction of Docker and its growing popularity as a container-based virtualization tool. It also describes the running mechanism of Docker, i.e., creating an image and running a container. The introduction will also highlight how Docker enhances the development and deployment processes, ensuring consistency across different environments. Following the introduction, the capabilities of Docker are presented, comparing the web development process with and without Docker. It further emphasizes the advantages of Docker for building, sharing, and running multiple web apps at the same time without getting dependency errors. The dependency error is the most commonly occurring issue with the development of the web app. Then, we have a demonstration of Docker in action, where Docker is used in real time. The demonstration includes the use of Docker desktop with multiple running containers, the implementation of basic command lines to create images and run containers, and also the use of Docker hub to access the images anytime and anywhere. To conclude, all key points are summarized, and attendees are also encouraged to explore Docker for the enhancement of their web app development process. The presentation then ends with a brief discussion on the challenges and best practices of Docker, including container management and security concerns.

Oral session 1B

## Poster Presentations

### *Predicting Music Preferences from Personality Traits and Personal Values*

**Paige Pichon**, Clayton Alex Hines, Elizabeth Dockter, Brittany Morgan, & Nicholas S. Holtzman

The literature on associations between personality traits and music preferences has solidified in recent years, showing some robust correlations. According to prior research, uses of music is interconnected with conscientiousness, affinity, and emotional maturity (Sallavanti et al. 2016). Furthermore, research has seen a correlation between personality traits and music usage. For example, there is an association between openness and the cognitive use of music and musical complexity (Chamorro-Premuzic, et al., 2010). In addition, research has shown that different music styles allow individuals to express who they are and how they would like to be perceived by others (Gosling, 2003). Using an interview-based study, researchers found that personal values and music preference were connected to one another (Manolios et al., 2019). Nevertheless, it is unclear if personal values do a better job than personality traits in capturing music preferences variance. We propose running a multiple regression model to predict each major music preference, with the expectation that personal values will predict music preferences above and beyond the predictive power of personality traits. To test this possibility, we will assess personal values using several different measures. We will use the portrait values questionnaire to measure participants' personal values. An additional measure that will be used is the BFI-2-S measure. The BFI-2-S consists of the Five Factors of Personality. In order to measure music preferences, we will use the STOMP-R measure. Participants will be college students of varying gender and age.

Poster session 1B