

CSE 565 – Software Verification and Validation

Project #1 Part 2 – Design of Experiments

Assignment

Your team has created a new mobile application, and you are tasked with using Design of Experiments to create pairwise combination test cases based upon the following requirements. Research and identify a tool that supports DOE and utilize the tool to develop test cases for the given specifications.

Mobile Application Testing Specifications:

Type of Phone	Parallel Tasks Running	Connectivity	Memory	Battery Level
iPhone X	Yes	Wireless	1 GB	< 20 %
iPhone 8	No	3G	2 GB	20 - 39%
Samsung S9		4G	4 GB	40 - 59%
Huawei Mate		Edge	6 GB	60 - 79%
Google Pixel 3				80 - 100%

Submission

- Tool report showing the test cases that can be executed
- The number of test cases

Assessment

Your assignment will be scored based on the following criterion:

1. Tool Report
2. Number of Test Cases

This project is worth 30 points