

Nicholas Anderson Carli Martinez Brandon Thomas Ryan Wallace

Shift Creator
Team Project – D.6 Release 2
CS 386 – Software Engineering
Spring 2018
Prof. Dr. Marco Gerosa

#### 1. Introduction

The problem of tediously creating a work schedule for employees affects managers; the impact of which is wasting valuable time trying to create a schedule that works for every employee. For managers who tediously create work schedules for their employees, ShiftCreator is a scheduling app that saves you time by generating your employee schedules for you; unlike other scheduling software, our product works with everyone to create the perfect schedule. ShiftCreator generates the weekly work schedules of multiple employees to save time for the manager and be a more streamlined experience that automatically schedules employees given the necessary information, and if the schedule is not ideal, a new one can be randomly generated in seconds.

GitHub Link:

https://github.com/csmartinez/job-scheduler

Trello Link:

https://trello.com/b/xWYGWFAX/groot-group-cs-386-shiftcreator

Site Link:

https://csmartinez.github.io/job-scheduler/Form.html

## 3. Implemented requirements

## Schedule Multiple Employees per Shift

Trello:

https://trello.com/c/zJNJemGs/13-as-a-scheduler-i-want-to-be-able-to-schedule-multiple-employ ees-during-the-same-hours

Implemented by: Nick Anderson Approved by: Ryan Wallace

**Automated Test:** 

https://github.com/csmartinez/job-scheduler/blob/master/cypress/integration/multi-employee.js

Screenshot:

## SHIFT CREATOR

## MONDAY

Name: Test Employee 1 / Start Time: 0 / End Time: 8

Name: Test Employee 2 / Start Time: 0 / End Time: 8

Name: Test Employee 3 / Start Time: 8 / End Time: 13

Name: Test Employee 5 / Start Time: 8 / End Time: 13

#### **TUESDAY**

Name: Test Employee 1 / Start Time: 0 / End Time: 8

Name: Test Employee 6 / Start Time: 0 / End Time: 8

Name: Test Employee 4 / Start Time: 8 / End Time: 13

Name: Test Employee 5 / Start Time: 8 / End Time: 13

#### WEDNESDAY

Name: Test Employee 1 / Start Time: 0 / End Time: 8

Name: Test Employee 4 / Start Time: 0 / End Time: 8

Name: Test Employee 6 / Start Time: 8 / End Time: 13

Name: Test Employee 2 / Start Time: 8 / End Time: 13

## **Back Button to Return to Data Entry**

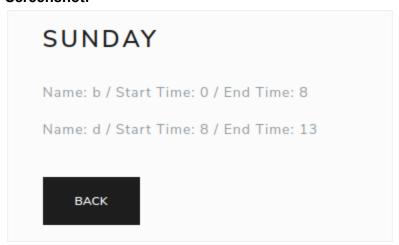
Trello:

https://trello.com/c/YuMRA5jC/15-as-a-scheduler-i-dont-want-to-have-to-retype-business-data

**Implemented by:** Brandon Thomas

**Approved by**: Nick Anderson

Automated Test: Screenshot:



## **Generate a Different Schedule**

Trello:

https://trello.com/c/vWHxug3p/19-as-a-scheduler-id-like-to-be-able-to-generate-a-new-schedule

**Implemented by:** Nick Anderson **Approved by:** Brandon Thomas

**Automated Test:** 

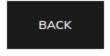
https://github.com/csmartinez/job-scheduler/blob/master/cypress/integration/generate.js

Screenshot:

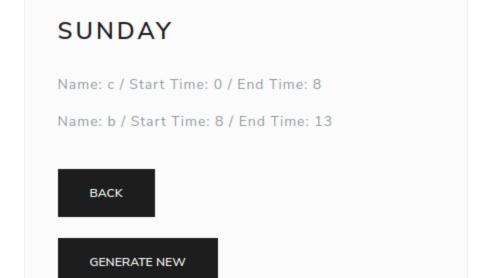
# SUNDAY

Name: d / Start Time: 0 / End Time: 8

Name: a / Start Time: 8 / End Time: 13



GENERATE NEW



#### 4. Demo

https://youtu.be/hh8Nzt2d3Ns

## 6. Group participation

**Nicholas Anderson** - Implemented support multiple employees and generate new schedule. Added automated tests for them. Reviewed and merged several pull requests. 25%

**Carli Martinez** - Assessed schedule output and tried HTML dom tables to make output into an easier to read format 25%

**Brandon Thomas** - Implemented back button to return to data entry. 25% **Ryan Wallace** - Beginning Introduction D.6, coordinated group meeting at library, worked on code and merged approved code in GitHub. 25%