

TeamSolver Documentation

Erik Vesterlund

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Abstract

This document describes the TeamSolver application.

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1 Introduction

This document outlines the features of the TeamSolver application; code documentation can be read elsewhere.

2 Command Line Interface

The command line interface offers no "proper" mode of exit, instead the user is informed of the option to type Ctrl+C (^C) to exit. The two available commands are **new** and **load**. If neither is typed, the terminal will output an error message and ask again for a command.

Currently only one command can be used per session; if the user first wants to load a shift and do work on and then create a new shift to do other work on, he will have to restart the program.

2.1 new

The command **new** is used to create a new list of employees (a shift) for possible further manipulation. The user is first asked to input a number, representing the number of employees which will be entered, and then to input the information for that many employees, which consist of a name and a list of competencies, separated by a comma.

If the input passes the format standards described below, the string of competencies is formatted such that the result contains only uppercase alphabetic letters. An instance of the **Employee** class is then formed from the name- and competencies strings and added to the list of employees: employees who can drive are added to the beginning of the list, employees who cannot are added to the end of the list.

2.1.1 Overall Format

The input shall consist of exactly two fields separated by a single comma; more than one comma will be interpreted as there being more than two fields and the input will be rejected.

2.1.2 Name Format

Any printable characters may be used to form a name, but at least two of the characters in the name must be alphabetic letters.

2.1.3 Competence Format

The competencies string must consist solely of spaces and alphabetic letters; there must at least one alphabetic letter in this string.

2.2 load

3 Graphical Interface

4 Solver