# Software Engineering Project

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### Key features of the project

- Simulator for solving a given Boolean expression.
- Restricted within the registered users
- Useful for generating truth table as an output for an given boolean expression.
- Taking a Boolean expression as input

#### Key features of the project

- Truth table is generated only for the truth cases.
- ▶ Backtracking algorithm is used for generating all the possible 2 to the power n cases.

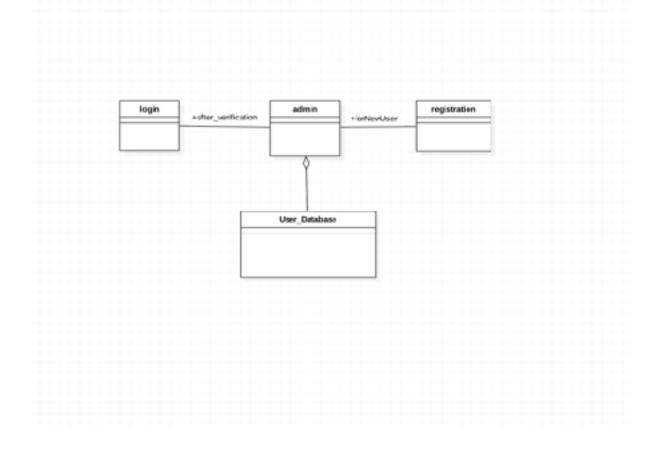
#### List of use cases

- ► User: Login
- ► User: Register To The System
- ► User: Logical Expression
- System: Valid Input
- ► System: Decoding
- System: Truth Table

#### Structure of the database/ file system:

- ▶ A logic circuit simulation system stores the following information.
- Registered Account: It includes User's name and the password user give. This information is used for logging in user so that, user can give input expression.
- New User uses this option to create a new account following which Registered Account will be updated.

## Structure of the database/ file system:



## Things that could not be implemented

- False cases can not be shown in the truth table.
- ► Input independence is not given to the user.

#### Statistics of Unit Testing

In unit testing, all the major unit tests are tested like checking for valid expression, admin processing, etc.

### Statistics for system testing

▶ All the possible paths were tested in system testing

## GROUP:6 CROSS TESTING PROJECT

**EXAM GRADE MANAGEMENT** 

#### List of Use cases tested

- Login
- Register
- Modify Profile
- View Profile
- Select Courses
- Put Marks
- Modify Grades
- View Stats

#### Statistics of the test cases

- Total 17 functions were tested
- ▶ All the functions were correct according to the given input in the report, but there was a common error for input.
- ▶ If function takes input as string then it fails for any input other than strings.

#### Conclusion

- We learn how to use git.
- We learn backtrack algorithm during this project.
- We get a good practice of making uml diagrams.

## Thank you