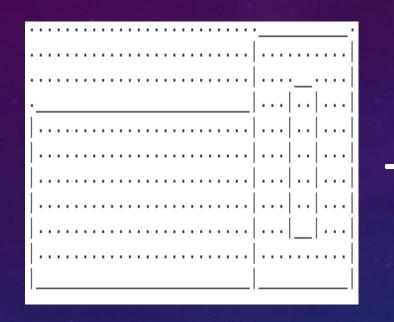
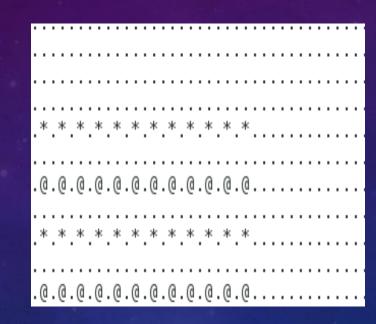


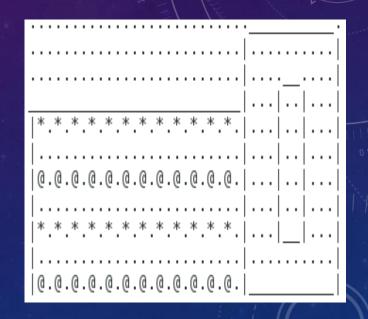
KEYFEATURES

- Simulates Light Pattern on a selected building.
- Secure system.
- Displays user history.
- Variety of patterns and buildings.
- User friendly.

Example of simulation







USE CASES

- Admin Login.
- Simulate_design.
- Display user history.

STRUCTURE OF DATABASE

- A folder named buildings store all the buildings.
- Each building details are stored in a seperate text file.
- Similar storage of pattern and Simulated Design.
- Admin details stored in a text file "Admin_details".
- Customer Details are stored in a binary file "Customer_details.dat".

THINGS UNIMPLEMENTED

- Password of admin cannot be changed.
- Deletion of a customer could not be implemented.
- Variation in number of patterns for a particular building could not be implemented.

STATISTICS OF UNIT TESTING

- Test cases identification- using control flow graph-all statement coverage
- Entering multiple characters where only one was to be entered created problems.

PROJECT TESTED

Book management system – by Chinmay Garg and Anurag Shah.

LIST OF USE CASES TESTED

- Add / view/ search resources.
- Add new member and search and view.
- Issue resource.
- Return resource.
- See user history.
- Renew resource.
- Pay fine.
- Edit profile.
- View issue history.
- Remove member

STATISTICS OF TEST CASES

- 10 functionalities were tested.
- Some component of all the function were wrong. Ex. Staff login, User deletion, Faculty login, All functions of faculty.
- Development team has not used file handling.

CONCLUSION

- Lighting Pattern Simulator successfully created.
- For scalability, text files containing building, pattern (4 for each building) and design details can be added into respective folders.
- Practical implementation of software development processes.
- Various software development processes used. For example, CFG for software testing.

