

# Publication Management

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# Key Features

- Search database using various filters
- Edit the database (Admin only)
- Generate statistics
- Get latest updates on changes made in database
- Login/Logout (Admin only)

# List of Use Cases

- <abstract> Search
- Search by paper title
- Search by author
- Search by year
- Search by journal title
- Search by DOI
- <abstract> Get Statistics
- Statistics by year
- Statistics by author
- Get news
- Login
- Logout
- <abstract> Edit
- Add entry
- Change existing entry
- Delete entry

# Structure of database and file system

- All data is stored in txt files
- When the program is started, all data is read and stored in a vector.
- A vector is a linear data structure like an array.
- All operations involving the vector such as searching use a linear pattern.

# Things that could not be implemented

- We have implemented pretty much everything that we have stated in the SRS, if not more.

# Statistics of Unit and System Testing

- We have identified test cases for unit testing by all functions in the code that are generating some output or taking input.
- For system testing, we have taken all use cases written in the SRS.
- We have not used any automated tools.
- We have not missed any test cases to the best of our knowledge.

# Vehicle Payment software

# List of Use Cases Tested

- Login
- Enter vehicle data
- Generate Bill
- Display vehicle data



# Statistics of Test Cases

- Four functionalities were tested
- Login does not provide any security and is useless.
- Inheritance tree is inverted.
- Functions fails when input is anything other than provided.
- Other functions are working fine.

Thank You