REQUIREMENTS & DESIGN DOCUMENT

Module - Advanced C

MP3 Tag Reader



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1 Abstract

MP3 tag reader is a software which will read and display MP3 (ID3) tag information from MP3 files. The software will be desktop based and not web based. All operations will be performed using command line interface

The application would be useful to individuals who wish to view and collect mp3 tag data. This project can be extended to implement a tag editor, wherein users can modify mp3 tag information



2 Requirements

- · Mandatory Features:
 - This application, should able to handle all ID3 versions (Except v2.4) tags.
 - Display which version of ID3 tag is used.
 - Display all the metadata information from ID3 tag.
 - User should able to change tags according to options given (Refer: Fig 5 2).
 - Should display a help screen on request (-h option).
 - If any image embedded in file, display details about image (Type, path and size).
 - If ID3 tag not found display proper error messages.
- Additional Features:
 - o Add an option to extract the album art (image) from file .
 - Add an option to delete all tag data from the file.
 - In corporate ID3v2.4 version .
 - It should be possible to delete a selected tag by options.

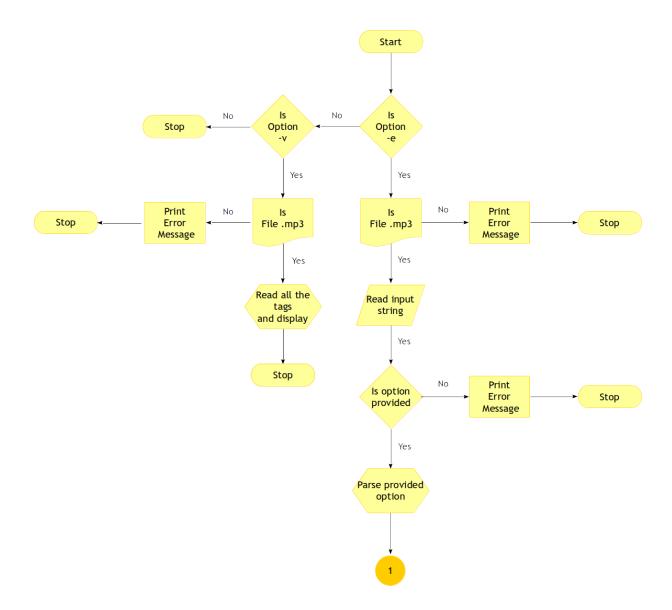


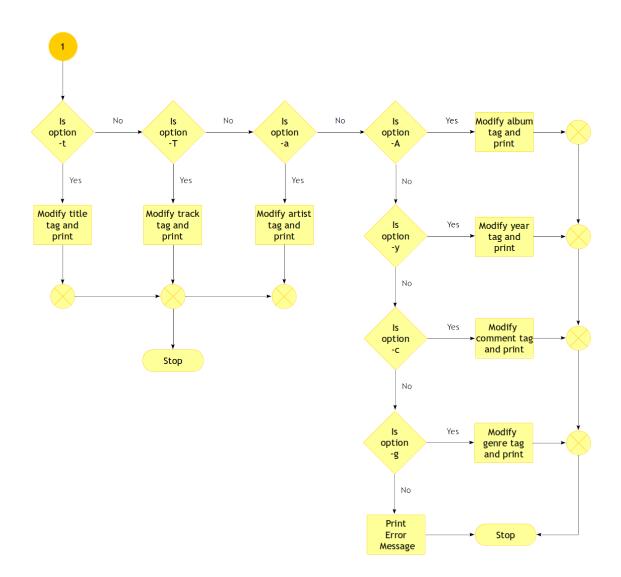
3 Prerequisites

- Knowledge of ID3 tags
- File I/O
- String Handling
- Pointers



4 Design







5 Sample Output

```
user@emertxe] ./mp3_tag_reader
ERROR: Incorrect format of command line arguments.
Use "./mp3_tag_reader -h" for help
user@emertxe]
```

Fig 5 1: Usage

Fig 5 2: Help

Fig 5 3: Print MP3 Tag

Fig 5 4: Edit Title Tag

Fig 5 5: Edit Artist Tag



6 Artifacts

6.1 Skeleton Code

TBD

6.2 References

- http://en.wikipedia.org/wiki/ID3
- http://id3.org
- http://id3.org/id3v2.3.0





```
####### Address Book #######
####### Features:

0. Exit
1. Add Contact
2. Search Contact
3. Edit Contact
4. Delete Contact
5. List Contact
6. Save

Please select an option: 4
```

Fig 6 1: Selecting Delete Contact



```
###### Address Book ######
####### Features:

0. Exit
1. Add Contact
2. Search Contact
3. Edit Contact
4. Delete Contact
5. List Contact
6. Save

Please select an option: 6
Done. Please enter key to continue:
```

Fig 6 2: Selecting Save option to save the entries. Note if the program is terminated the unsaved entries will be lost

```
###### Address Book ######
####### Features:

0. Exit
1. Add Contact
2. Search Contact
3. Edit Contact
4. Delete Contact
5. List Contact
6. Save

Please select an option: 0
```

Fig 6 3: Selecting Exit option to Quit the application

```
####### Address Book #######
####### Features:

0. Exit
1. Add Contact
2. Search Contact
3. Edit Contact
4. Delete Contact
5. List Contact
6. Save
Enter 'N' to Ignore and 'Y' to Save: Y
Exiting. Data saved in address_book.csv
user@emertxe]
```

Fig 6 4: Pressing 'Y' to Save