**Team:** AlphaX

**Function Description**

- Add a new photo with new tags

- Search for photo(s) with the tags the user given

- Search for photo(s) with the tags condition that user given

- User input photo and display list of three most similar photos

- Choose the photo and display to the browser

**Module Description**

**readwrite.c**

This file handle reading and writing the information of the photos to the file and also setup the data structure for using

void readData(PHOTO\_T\* pHead,HASHITEM\_T\* ht[]);

void writeData(PHOTO\_T\* pHead);

void createFile();

**model.c**

This file contain function handling search for photo(s) that user want , list three most similar photos and Add a new photo with new tags

PHOTO\_T\* findPhoto(PHOTO\* pHead,char\* name);

void searchByTag(HASHITEM\_T\* ht[] ,char\* tags[]);

void searchCondition(HASHITEM\_T\* ht[],

char\* tags[],char\* except[]);

void findSimilar(HASHITEM\_T\* ht[],PHOTO\_T\* photo);

void addTag(PHOTO\_T\* photo,char\* tags[],int count);

void deleteTag((PHOTO\_T\* photo,char\* tags[],int count);

**view.c**

This file contain function for display all user interface

void menuPage();

void searchByTagPage();

void searchConPage();

void similarPage();

void addTagPage();

void deleteTagPage();

void clearScreen();

void displayData(PHOTO\_T\* photo);

**controller.c**

This file contain function that receive command from the user and response what user want to see

void handlemenu(PHOTO\* pHead,HASHITEM\_T\* ht[]);

void handleSearchByTag(HASHITEM\_T\* ht[]);

void handleSearchCondition(HASHITEM\_T\* ht[]);

void handleAddTag(PHOTO\* pHead);

void handleDeleteTag(PHOTO\* pHead);

void handle

int main();

**dtype.c**

This file contain implement data structure such as, hash

void isNull(\*void pointer);

**LINKLIST ADT**

void insertNode(void\*\* pHead,void\* newNode);

void freeList(void\* pHead);

**HASH ADT**

int hashFunction(char\* key);

void insertitem(char\* key, PHOTO\_T\* item);

void freeHash(HASHITEM\_T\* ht[]);