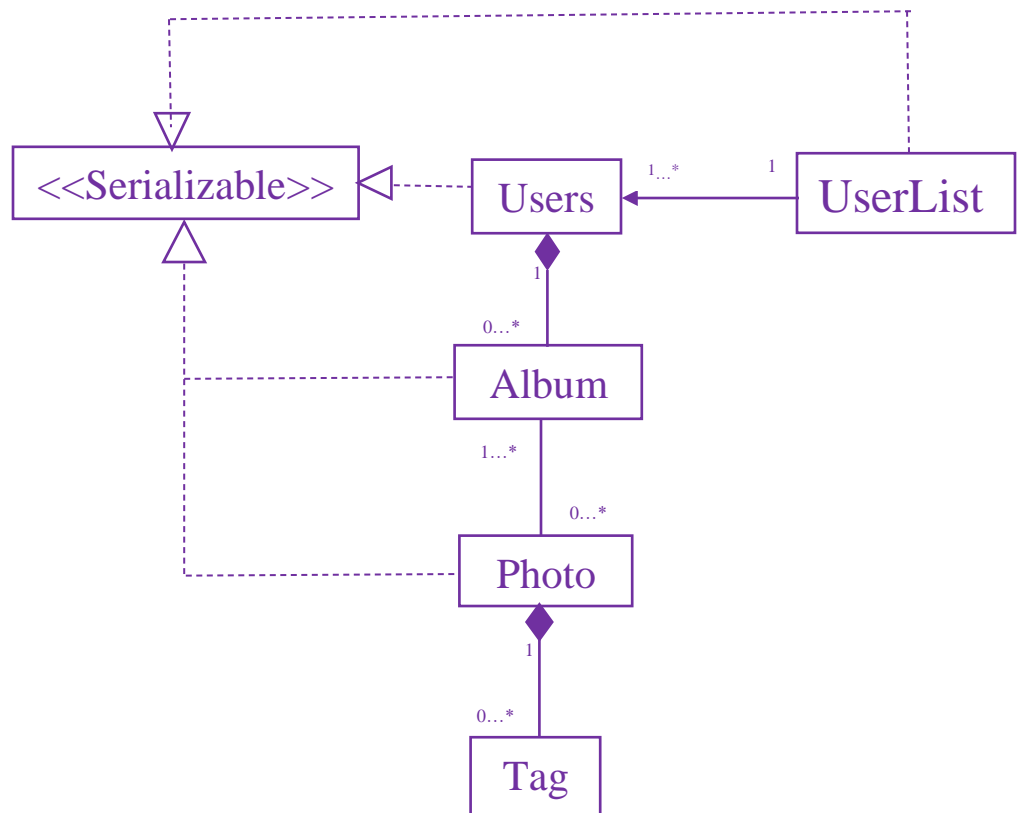Photos75 UML:

Group# 75

Partners: Wajeeha Rehman- wr152

　　　　　　Pavendeep Kaur- pk498

public class User implements Serializable

{

       private ArrayList<Album> list;

      ….//some code here

}

public class UserList implements Serializable

{

```java
    // Fields for storing file in a directory
private List<User> users;    // other
fields and accessor methods
    public void writeApp(ObservableList<Users> uList) throws
IOException,ClassNotFoundException {…}      public List<User> readApp() throws
IOException, ClassNotFoundException {…}
}


public class Album implements Serializable
{
        private List<Photo> photos;
        photos = new ArrayList<Photos>();
        ….//other fields and accessor methods
}


public class Photo implements Serializable
{
        private List<Tag> tags;
        private SerializableImage image;
tags = new ArrayList<Tag>();
        …//some implementation
}


public class SerializableImage implements Serializable
{
    //To serialize an image since it can't inherently do it
private int width, height; private int[][] pixels;
…// additional methods
```

}

User

-name: String

-username: String

-password: String

- albums: ArrayList<Album>

+getAlbumIndexByAlbum(Album a): int

+getAlbumByName(String name): Album

+removeAlbum(): void

UsersList

+storeDir: final String

+storeFile: final String

- users: ArrayList<Users>

+addUserToList(User u): void

+removeUserFromList(User u): void

+isUserInList(Strin un, String p): Boolean

+getUserByUsername(String user): User

+write(UserList ulist): void throws IOException

+read(): void throws IOException

Album

-photos: ArrayList<Photo>

-name: String

-oldestPhoto: Photo

-earliestPhoto: Photo

+findEarliestPhoto():void

+findOldestPhoto():void

+getDateRange(): String

Photo

-image: SerializableImage

-tags: List<Tag>

-caption: String

-cal: Calendar

+editTag(int index, String type, String value) : void

+removeTag(int index): void

+hasSubset(List<Tag> tlist): Boolean

+isWithinDateRange(LocalDate fromDate, LocalDate toDate): boolean

SerializableImage

-width: int

-height: int

-pixels: int[][]

+equals(SerializableImage si): boolean

Tag

-type: String

-value: String

+hashCode():int

+equals(Object obj): boolean