Controller (need to delegate to separate ctrlrs)

+login(String ID, String password): void

+logout(): void

+listUsers(): ArrayList<User>

+addUser(String ID, String Password): void

+deleteUser(String ID): void

+editUser(String ID, String oldPW, String newPW): void

+listAlbum(): ArrayList<Album>

+createAlbum(String name): void +deleteAlbum(Album album): void

+renameAlbum(Album album, String newName): void

+openAlbum(Album album): void

+searchDate(String start, String end): ArrayList<Photo>

+searchTag(ArrayList<String> tags): ArrayList<Photo>

+listPhotos(Album album): ArrayList<Photo>

+addPhoto(String photofile): void +deletePhoto(Photo photo): void

+addCaption(Photo photo, String caption): void

+editCaption(Photo photo, String newCaption): void

+displayPhotoDetails(Photo photo): void

+movePhoto(Photo photo, Album old, Album new): void

+copyPhoto(Photo photo, Album old, Album new): void

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+slideshow(): void

-ID: String -Password: String +setID(String id): void +setPassword(String pw): void +getID(): String +getPassword(): String +getAlbums(): ArrayList<Album> +addAlbum:(Album album): void +editAlbum(Album album): void +deleteAlbum(Album album): void

Album

-albumName: String -albumOwner: String -photos: ArrayList<Photo>

+setAlbumName(String name): void +setAlbumOwner(String ID): void

+getName(): void +getOwner(): void

+getPhotos(): ArrayList<Photo> +addPhoto(Photo photo): void +deletePhoto(Photo photo): void Tag
+tag: String

+setTag(): void
+getTag(): String

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Photo

-time: String-owner: String-caption: String-tags: ArrayList<Tag>-albums: ArrayList<Album>

-date: String

+setCaption(String c): void +setTags(Tag tag): void

+addAlbum(Album album): void

+moveAlbum(Album curr, Album new): void

+getCaption(): String
+getTags(): String
+getAlbums(): String
+getDateAndTime(): String

+setCaption(): String +addTag(String): void +deleteTag(Tag): void

+getInfo(): void

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