```
User
//INSTANCE FIELDS
- userName : String
- memesCreated : ArrayList<Meme>
- memesViewed : ArrayList<Meme>
//DEFAULT CONSTRUCTOR
+ User()
//METHODS
+ setUserName(aUserName : String) : void
+ setMemesCreated(i : int) : void
+ setMemesViewed(i : int) : void
+ getUserName() : String
+ getMemesCreated(i : int) : Meme
+ getMemesViewed(i : int) : Meme
+ rateMeme(object : Meme, rating : int) : void
+ createMeme(object : BackgroundImage, caption : String) : Meme
+ deleteMeme(object : Meme) : boolean
+ shareMeme(object1 : Meme, object2 : Feed) : void
+ rateNextMemeFromFeed(object : Feed, ratingScore : int) : void
+ calculateReputation() : double
+ toString() : String
+ equals(object : Object) : boolean
```

```
BackgroundImage
//INSTANCE FIELDS
- imageFileName : String
- title : String
- description : String
//DEFAULT CONSTRUCTOR
+ BackgroundImage()
//METHODS
+ setImageFileName(aImageFileName : String) : void
+ setTitle(aTitle : String) : void
+ setDescription(aDescription : String) : void
+ getImageFileName() : String
+ getTitle() : String
+ getDescription() : String
+ toString() : String
+ equals(object : Object) : boolean
```

```
Meme
//INSTANCE FIELDS
- creator : User
- backgroundImage : BackgroundImage
- ratings : Rating[]
- caption : String
- captionVerticalAlign : String
- shared : boolean
//DEFAULT CONSTRUCTOR
+ Meme()
//METHODS
+ setCreator(aUserName : String) : void
+ setBackgroundImage() : void
+ setRatings() : void
+ setCaption(String : aCaption) : void
+ setCaptionVerticalAlign(String : aCaptionVerticalAlign) : void
+ shared(Boolean : aBoolean) : void
+ getCreator() : User
+ getBackgroundImage() : BackgroundImage
+ getRatings() : Rating[]
+ getCaption() : String
+ getCaptionVerticalAlign() : String
+ getShared() : boolean
+ addRating(object : Rating) : boolean
+ calculateOverallRating() : double
+ toString() : String
+ equals(object : Object) : boolean
```

```
Rating
//INSTANCE FIELDS
- score : int
- user : User
//DEFAULT CONSTRUCTOR
+ Rating()
//METHODS
+ setScore(aScore : int) : void
+ setUser() : void
+ getScore() : int
+ getUser() : User
+ toString() : String
+ equals(object : Object) : boolean
```

```
Feed
//INSTANCE FIELDS
- memes : ArrayList<Meme>
//DEFAULT CONSTRUCTOR
+ Feed()
//METHODS
+ setMemes() : void
+ getMemes(i : int) : Meme
+ getNewMeme(object : User) : Meme
+ toString() : void
```