# **UML Diagram for News App Deluxe Ultra Supreme**

## GUI Main.java

- articleList: ArrayList<Article>
- favoriteStorage: Storage
- title: ArrayList<String>
- author: ArrayList<String>
- description: ArrayList<String>
- URL: ArrayList<String> - imageURL: ArrayList<String>
- shadow: DropShadow
- captions: String[]
- hlps: Hyperlink[]
- countries: String[]
- fullCountryName: String[]
- stage: Stage
- + start(Stage)
- # main(String[])
- # primeArrayLists(ArrayList<Article>)
- # viewArticles(String)
- # viewFavorites()
- guiDisplay()
- favoriteDisplay()

## GUI Translator.java

- # titleList: ArrayList<>
- # authorList: ArrayList<>
- # descriptionList: ArrayList<>
- # urlList: ArrayList<>
- # imageUrlList: ArrayList<>
- translator: API\_Translator
- # fetchArticles(String): ArrayList<Article>
- # setTitleList(ArrayList<Articles>): ArrayList<String>
- # setAuthorList(ArrayList<Articles>): ArrayList<String>
- # setDescriptionList(ArrayList<Articles>): ArrayList<String>
- # setUrlList(ArrayList<Articles>): ArrayList<String>
- # setImageUrlList(ArrayList<Articles>): ArrayList<String>

#### Article.java

- title: String
- author: String
- description: String
- url: String
- urlToImage: String
- publishedAt: String
- isFavorited: boolean
- + toString(): String
- + getTitle(): String
- + getAuthor(): String
- + getDescription(): String
- + getUrl(): String
- + getUrlToImage(): String
- +getIsFavorited(): Boolean

#### Storage.java

- # favoriteArray: ArrayList<Article>
- filePath: String
- # initializeStorage()
- # saveFileToArray()
- # newFavorite(Article)
- # removeFavorite(Article)
- # clear()
- # storeTxt(String)
- ensureFileExistence(): boolean
- loadArray()

# API\_Translator.java

- apiKey: String
- apiPrefix: String
- baseUrl: String
- # sortByCountry(String): JSONObject
- # sortByCategory(String): JSONObject
- # sortByKeyword(String): JSONObject
- # sortByDomain(String): JSONObject
- # getArrayListOfArticlesFromJSONObject(JSONObject): ArrayList<Article>
- connectAndReturnContents(String): StringBuilder
- getSpecificArticleFromJSON(JSONObject, int): Article