com.eastapps.meme_gen_server.domain::User +User(): ctor +User(String username, String password, Date lastMod): ctor +User(String username, String password, Boolean active, Date lastMod, String salt, Set<DeviceInfo> deviceInfos, Set<Meme> memes, Set<UserFavMemeType> userFavMemeTypes): ctor +getId(): Integer +setId(Integer id): void +getUsername(): String +setUsername(String username): void +getPassword(): String +setPassword(String password): void +getActive(): Boolean +setActive(Boolean active): void +getLastMod(): Date +setLastMod(Date lastMod): void +getSalt(): String +setSalt(String salt): void +getDeviceInfos(): Set<DeviceInfo> +setDeviceInfos(Set<DeviceInfo> deviceInfos): void +getMemes(): Set<Meme> +setMemes(Set<Meme> memes): void +getUserFavMemeTypes(): Set<UserFavMemeType> +setUserFavMemeTypes(Set<UserFavMemeType> userFavMemeTypes): void +toString(): String

com.eastapps.meme_gen_server.domain::ShallowMeme +ShallowMeme(): ctor +ShallowMeme(final Meme from): ctor +toMeme(): Meme +getBackgroundFk(): int +setBackgroundFk(int backgroundFk): void +getId(): int +setId(int id): void +getTopText(): String +setTopText(String topText): void +qetBottomText(): String +setBottomText(String bottomText): void +getUserId(): int +setUserId(int userId): void +getMemeTypeDescr(): String +setMemeTypeDescr(String memeTypeDescr): void +getMemeTypeId(): int +setMemeTypeId(int memeTypeId): void +getTopTextFontSize(): int +setTopTextFontSize(int topTextFontSize): void +getBottomTextFontSize(): int +setBottomTextFontSize(int bottomTextFontSize): void +toString(): String

```
com.eastapps.meme_gen_server.service::MemeService
+MemeService(): ctor
+storeMeme(final ShallowMeme shallowMeme): int
+getFavoriteMemeTypesForUser(final int userId): List<ShallowMemeType>
+getMemeBackground(final int typeId): byte[]
+getShallowMeme(final int memeld): ShallowMeme
+getMeme(final int memeld): Meme
+getSampleMemes(final int memeTypeId): List<ShallowMeme>
+getAllMemeTypes(): List<ShallowMemeType>
+getThumbForType(final int typeId): byte[]
+getUser(final int userId): ShallowUser
+getNewInstallKey(): String
+storeNewUser(ShallowUser user): int
+saveFavType(int userId, int typeId): boolean
+removeFavType(int userId, int typeId): boolean
+getPopularMemeTypes(): List<ShallowMemeType>
+getTypesForSearch(String searchTerm): List<ShallowMemeType>
+storeCrawlerMemes(final List<CrawlerMeme> memes): Boolean
+storeCrawlerBackground(final List<CrawlerBackground> memes): Boolean
```

```
com.eastapps.meme_gen_server.domain.generated::User
+User(): ctor
+User(String username, String password, Date lastMod): ctor
+User(String username, String password, Boolean active, Date lastMod, String salt, Set deviceInfos, Set memes, Set userFavMemeTypes): ctor
+getId(): Integer
+setId(Integer id): void
+getUsername(): String
+setUsername(String username): void
+getPassword(): String
+setPassword(String password): void
+getActive(): Boolean
+setActive(Boolean active): void
+getLastMod(): Date
+setLastMod(Date lastMod): void
+getSalt(): String
+setSalt(String salt): void
+getDeviceInfos(): Set
+setDeviceInfos(Set deviceInfos): void
+getMemes(): Set
+setMemes(Set memes): void
+getUserFavMemeTypes(): Set
+setUserFavMemeTypes(Set userFavMemeTypes): void
```

```
com.eastapps.meme_gen_server.domain::Meme
+Meme(): ctor
+Meme(LvMemeType lvMemeType, User user, MemeBackground memeBackground, Boolean isSampleMeme, Date lastMod, Set<MemeText> memeTexts): ctor
+getId(): Integer
+setId(Integer id): void
+getLvMemeType(): LvMemeType
+setLvMemeType(LvMemeType lvMemeType): void
+getMemeBackground(): MemeBackground
+setMemeBackground(MemeBackground memeBackground): void
+getMemeTexts(): Set<MemeText>
+setMemeTexts(Set<MemeText> memeTexts): void
+getUser(): User
+setUser(User user): void
+toMap(): Map<String, Object>
+getIsSampleMeme(): Boolean
+setIsSampleMeme(Boolean isSampleMeme): void
+getLastMod(): Date
+setLastMod(Date lastMod): void
+toString(): String
```

```
com.eastapps.meme_gen_server.domain.generated::Meme
+Meme(): ctor
+Meme(Date lastMod): ctor
+Meme(LvMemeType lvMemeType, User user, MemeBackground memeBackground, Boolean isSampleMeme, Date lastMod, Set memeTexts): ctor
+getId(): Integer
+setId(Integer id): void
+getLvMemeType(): LvMemeType
+setLvMemeType(LvMemeType lvMemeType): void
+getUser(): User
+setUser(User user): void
+getMemeBackground(): MemeBackground
+setMemeBackground(MemeBackground memeBackground): void
+getIsSampleMeme(): Boolean
+setIsSampleMeme(Boolean isSampleMeme): void
+getLastMod(): Date
+setLastMod(Date lastMod): void
+getMemeTexts(): Set
+setMemeTexts(Set memeTexts): void
```

```
<u>com.eastapps.meme_gen_server::HomeController</u>
+HomeController(final MemeService memeService): ctor
+home(Model model): String
+storeMeme(@RequestBody ShallowMeme shallowMeme): IntResult
+addMemeAdmin(): String
+getMemeBackground(@PathVariable("typeid") final int typeId): byte[]
+storeMemesFromCrawler(@RequestBody final CrawlerMeme[] memes): Boolean
+storeMemeBackgroundsFromCrawler(@RequestBody final CrawlerBackground[] bgs): Boolean
+getMeme(@PathVariable("meme_id") final int memeld): ShallowMeme
+getSampleMemes(@PathVariable("meme_type_id") final int memeTypeId): ShallowMeme[]
+getAllMemeTypes(): ShallowMemeType[]
+getPopularTypes(): ShallowMemeType[]
+getThumbForType(@PathVariable("id") final int typeId): byte[]
+getTypesForSearch(@PathVariable("searchTerm") String searchTerm): ShallowMemeType[]
+getUserForId(@PathVariable("id") final int userId): ShallowUser
+getFavTypesForUserId(@PathVariable("id") final int userId): ShallowMemeType[]
+getNewInstallKey(): String
+storeNewUser(@RequestBody final ShallowUser user): int
+storeFavType(@PathVariable("userid") final int userId, @PathVariable("typeid") final int typeId): boolean
+removeFavType(@PathVariable("userid") final int userId, @PathVariable("typeid") final int typeId): boolean
```

com.eastapps.meme_gen_server.domain::LvMemeType +LvMemeType(): ctor +LvMemeType(Date lastMod): ctor +LvMemeType(String descr, Date lastMod, Boolean active, Set<Meme> memes): ctor +LvMemeType(String descr, Boolean active, Set<Meme> memes): ctor +getId(): Integer +setId(Integer id): void +getDescr(): String +setDescr(String descr): void +getActive(): Boolean +setActive(Boolean active): void +getMemes(): Set<Meme> +getLastMod(): Date +setLastMod(Date lastMod): void +getMemeTypePopularities(): Set<MemeTypePopularity> +setMemeTypePopularities(Set<MemeTypePopularity> memeTypePopularities): void +toString(): String

```
com.eastapps.meme_gen_server.domain.generated::MemeText
+MemeText(): ctor
+MemeText(Date lastMod): ctor
+MemeText(Meme meme, String text, String textType, Integer fontSize, Date lastMod): ctor
+getId(): Integer
+setId(Integer id): void
+getMeme(): Meme
+setMeme(Meme meme): void
+getText(): String
+setText(String text): void
+getTextType(): String
+setTextType(String textType): void
+getFontSize(): Integer
+setFontSize(Integer fontSize): void
+getLastMod(): Date
+setLastMod(Date lastMod): void
```

```
com.eastapps.meme_gen_server.domain.generated::MemeBackground
+MemeBackground(): ctor
+MemeBackground(Date lastMod): ctor
+MemeBackground(Boolean active, String path, Date lastMod, Set memes): ctor
+getId(): Integer
+setId(Integer id): void
+getActive(): Boolean
+setActive(Boolean active): void
+getPath(): String
+setPath(String path): void
+getLastMod(): Date
+setLastMod(Date lastMod): void
+getMemes(): Set
+setMemes(Set memes): void
```

com.eastapps.meme_gen_server.domain::MemeBackground +MemeBackground(): ctor +MemeBackground(Boolean active, String path, Date lastMod, Set<Meme> memes): ctor +MemeBackground(Date lastMod): ctor +getId(): Integer +setId(Integer id): void +getActive(): Boolean +setActive(Boolean active): void +getPath(): String +setPath(String path): void +getMemes(): Set<Meme> +setMemes(Set<Meme> memes): void +getLastMod(): Date +setLastMod(Date lastMod): void +toString(): String

com.eastapps.meme_gen_server.domain.generated::LvMemeType +LvMemeType(): ctor +LvMemeType(Date lastMod): ctor +LvMemeType(String descr, Date lastMod, Boolean active, Set memes, Set memeTypePopularities, Set userFavMemeTypes): ctor +getId(): Integer +setId(Integer id): void +getDescr(): String +setDescr(String descr): void +getLastMod(): Date +setLastMod(Date lastMod): void +getActive(): Boolean +setActive(Boolean active): void +getMemes(): Set +setMemes(Set memes): void +getMemeTypePopularities(): Set +setMemeTypePopularities(Set memeTypePopularities): void +getUserFavMemeTypes(): Set +setUserFavMemeTypes(Set userFavMemeTypes): void

```
com.eastapps.meme_gen_server.domain::MemeText
+MemeText(): ctor
+MemeText(Meme meme, String text, String textType, Integer fontSize): ctor
+getId(): Integer
+setId(Integer id): void
+getMeme(): Meme
+setMeme(Meme meme): void
+getText(): String
+setText(String text): void
+getTextType(): String
+setTextType(String textType): void
+getFontSize(): Integer
+setFontSize(Integer fontSize): void
+toString(): String
```

com.eastapps.meme_gen_server.domain.generated::UserFavMemeType +UserFavMemeType(): ctor +UserFavMemeType(Date lastMod): ctor +UserFavMemeType(LvMemeType lvMemeType, User user, Boolean active, Date lastMod): ctor +getId(): Integer +setId(Integer id): void +getLvMemeType(): LvMemeType +setLvMemeType(LvMemeType lvMemeType): void +getUser(): User +setUser(User user): void +getActive(): Boolean +setActive(Boolean active): void +getLastMod(): Date +setLastMod(Date lastMod): void

com.eastapps.meme_gen_server.domain::UserFavMemeType com.eastapps.meme_gen_server.domain::DeviceInfo +UserFavMemeType(): ctor +DeviceInfo(): ctor +UserFavMemeType(Date lastMod): ctor +DeviceInfo(Date lastMod): ctor +DeviceInfo(User user, String uniqueId, Date lastMod): ctor +UserFavMemeType(LvMemeType lvMemeType, User user, Boolean active, Date lastMod): ctor +getId(): Integer +getId(): Integer +setId(Integer id): void +setId(Integer id): void +getLvMemeType(): LvMemeType +getUser(): User +setUser(User user): void +setLvMemeType(LvMemeType lvMemeType): void +getUniqueId(): String +getUser(): User +setUniqueId(String uniqueId): void +setUser(User user): void +getLastMod(): Date +getActive(): Boolean +setLastMod(Date lastMod): void +setActive(Boolean active): void +toString(): String +getLastMod(): Date +setLastMod(Date lastMod): void

com.eastapps.meme_gen_server.domain::CrawlerBackground

+setCrawlerImgFilename(String crawlerImgFilename): void

+CrawlerBackground(): ctor

+setId(Integer id): void

+getLastMod(): Date

+getSourceDesc(): String

+getCrawlerImgFilename(): String

+getCrawlerImgDesc(): String

+setLastMod(Date lastMod): void

+getId(): Integer

com.eastapps.meme_gen_server.domain.generated::DeviceInfo
+DeviceInfo(): ctor
DeviceInfo(Date lastMod): ctor
DeviceInfo(User user, String uniqueId, Date lastMod): ctor
rgetld(): Integer
rsetId(Integer id): void
+getUser(): User
⊦setUser(User user): void
rgetUniqueId(): String
setUniqueId(String uniqueId): void
rgetLastMod(): Date
rsetLastMod(Date lastMod): void

com.eastapps.meme_gen_server.domain::ShallowUser

+ShallowUser(): ctor

+setId(int id): void

+toString(): String

+getUsername(): String

+getInstallKey(): String

+setUsername(String username): void

+setInstallKey(String installKey): void

+getId(): int

+setLastMod(Date lastMod): void com.eastapps.meme_gen_server.domain::SampleMeme +SampleMeme(): ctor +SampleMeme(Meme memeBySampleMemeFk, Meme memeByMemeFk): ctor +getId(): Integer +setId(Integer id): void +getMemeBySampleMemeFk(): Meme +setMemeBySampleMemeFk(Meme memeBySampleMemeFk): void +getMemeByMemeFk(): Meme

+MemeTypePopularity(): ctor

+getLvMemeType(): LvMemeType

+setRanking(Integer ranking): void

+getId(): Integer

+setId(Integer id): void

+getRanking(): Integer

+getLastMod(): Date

+MemeTypePopularity(Date lastMod): ctor

+setLvMemeType(LvMemeType lvMemeType): void

+setMemeByMemeFk(Meme memeByMemeFk): void

com.eastapps.meme_gen_server.domain.generated::MemeTypePopularity

+MemeTypePopularity(LvMemeType lvMemeType, Integer ranking, Date lastMod): ctor

com.eastapps.meme_gen_server.util::Util +getInt(final Integer i): int +getId(final Serializable s): int +commit(final Session session): void +close(final Session sesh): void +rollback(final Session sesh): void +concat(final Object... objs): String +getBytesFromFile(File file): byte[]

+getId(): Integer

+setId(Integer id): void

+getRanking(): Integer

+getLastMod(): Date

+MemeTypePopularity(): ctor

+getLvMemeType(): LvMemeType

+setRanking(Integer ranking): void

+setLastMod(Date lastMod): void

+MemeTypePopularity(Date lastMod): ctor

+setLvMemeType(LvMemeType lvMemeType): void

com.eastapps.meme_gen_server.constants::Constants +INVALID = -1: int +TOP = "TOP": String +BOTTOM = "BOTTOM": String +EMPTY = "": String +EMPTY_STRING = EMPTY: String +MGS_DB_NAME = "mgsdb": String +getDbName(): String

com.eastapps.meme_gen_server.domain::MemeTypePopularity

+MemeTypePopularity(LvMemeType lvMemeType, Integer ranking, Date lastMod): ctor

com.eastapps.meme_gen_server.domain::IntResult +IntResult(): ctor +getResult(): int +setResult(int result): void +toString(): String +hashCode(): int +equals(Object obj): boolean

+setBackgroundId(int backgroundId): void

+setSourceDesc(final String sourceDesc): void

+setCrawlerImgDesc(String crawlerImgDesc): void

com.eastapps.meme_gen_server.service::LocalFileReader +LocalFileReader(): ctor +getBytes(final String addr): byte[]

com.eastapps.meme_gen_server.domain::CrawlerMeme

+CrawlerMeme(): ctor

+setId(Integer id): void

+getTopText(): String

+getLastMod(): Date

+getBottomText(): String

+setName(String name): void

+setTopText(String topText): void

+setLastMod(Date lastMod): void

+setBottomText(String bottomText): void

+getName(): String

+getId(): Integer

«interface» com.eastapps.meme_gen_server.service::IMemeFileReader +getBytes(String addr): byte[]

com.eastapps.meme_gen_server.service::UrlFileReader

+UrlFileReader(): ctor +UrlFileReader(final int readChunkSizeBytes): ctor +getBytes(final String addr): byte[] +getUrlBase(): String

+setUrlBase(String urlBase): void

+ShallowMemeType(): ctor +ShallowMemeType(final LvMemeType lvMemeType): ctor +getTypeId(): int +setTypeId(int typeId): void +getTypeDescr(): String +setTypeDescr(String typeDescr): void +getBackgroundId(): int

com.eastapps.meme_gen_server.domain::ShallowMemeType