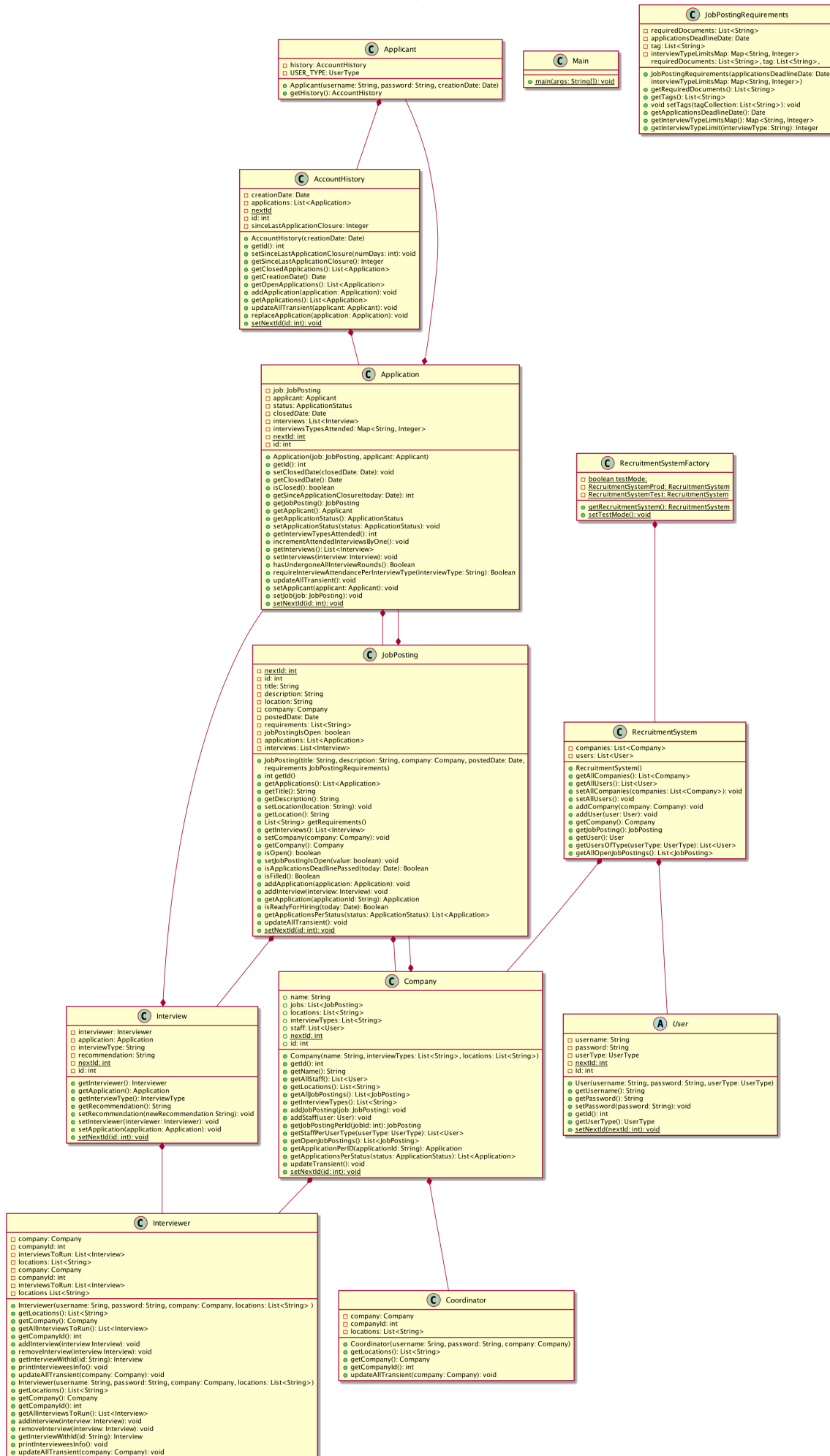
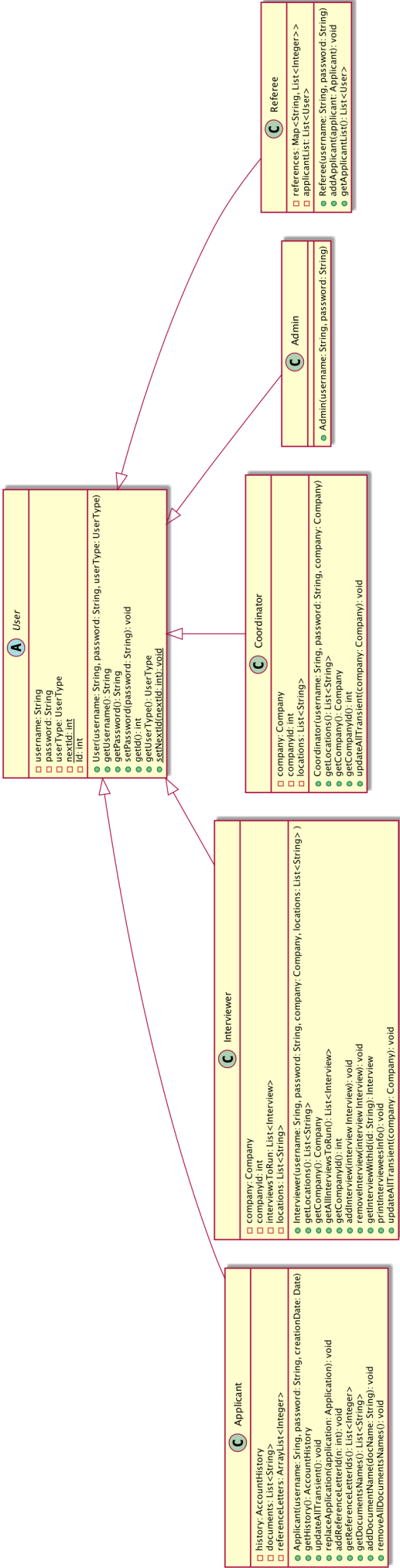


## Composition



Users



Applicant Actions

ⓘ Action
● collectParameters(): void
● getDescription(): String
● getShortcut(): String

Ⓐ AbstractAction
● description: String
● shortcut: String
● getDescription(): String
● getShortcut(): String

Ⓐ ApplicantAction
➤ Applicant applicant
● ApplicantActions(shortcut: String, description: String, applicant: Applicant)

Ⓒ AddRefereeAction
□ allReferees: List<User>
□ referee: Referee
● AddRefereeAction(applicant: Applicant)
● performAction(): void

Ⓒ ApplyForJobAction
□ jobId: int
□ today: Date
● ApplyForJobAction(applicant: Applicant, today: Date)
● performAction(): void

Ⓒ CreateAccountCreationDateAction
● CreateAccountCreationDateAction(applicant: Applicant)
● performAction(): void

Ⓒ GetAllOpenJobPostingAction
□ tagJobs: Map<String, List<JobPosting>
□ tagChoice: String
□ tagChoices: List<JobPosting>
□ sortingBy: TagChoice: String
● GetAllOpenJobPostingsAction(applicant: Applicant)
● collectParameters(): void
● performAction(): void
■ sortByPostingsByTag(): void

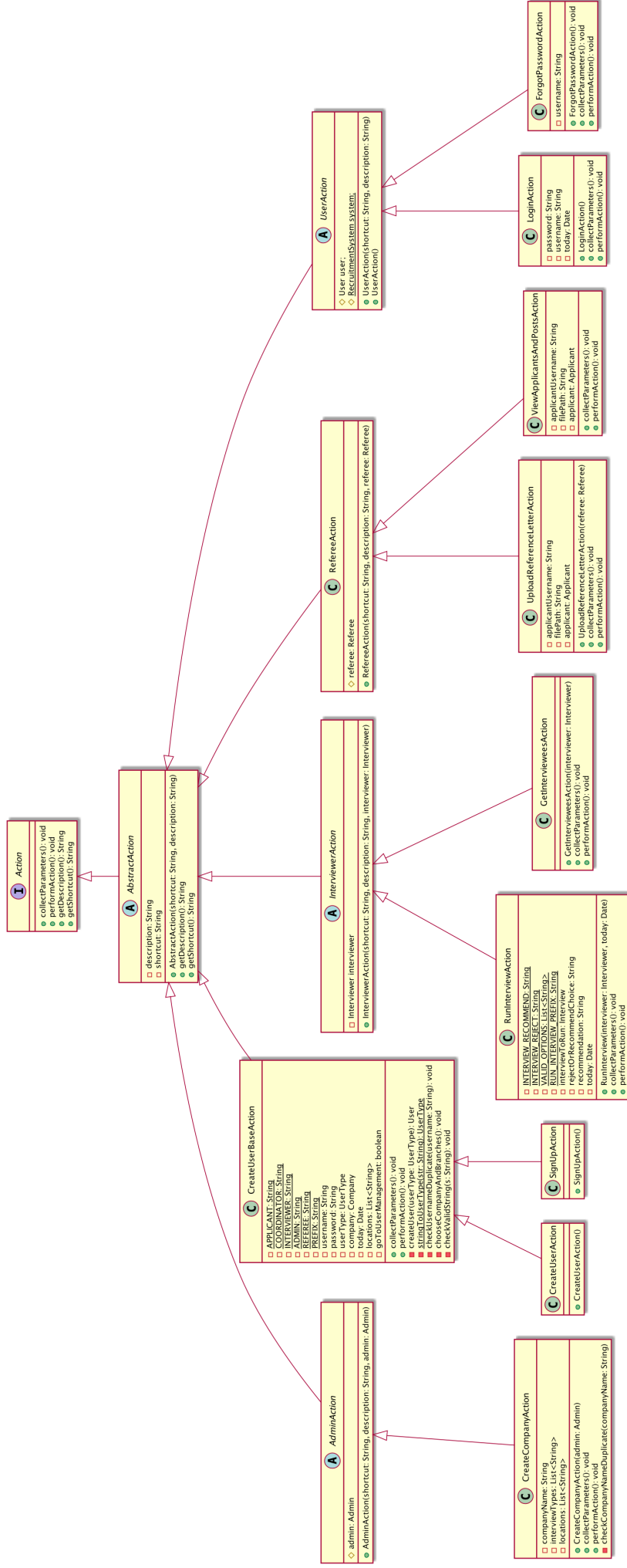
Ⓒ GetNumDaysSinceLastAppClosedAction
● GetNumDaysSinceLastAppClosedAction(applicant: Applicant)
● collectParameters(): void
● performAction(): void

Ⓒ GetApplicationsAction
□ CURRENT: String
□ applicationType: String
● GetApplicationsAction(applicant: Applicant)
● collectParameters(): void
● performAction(): void

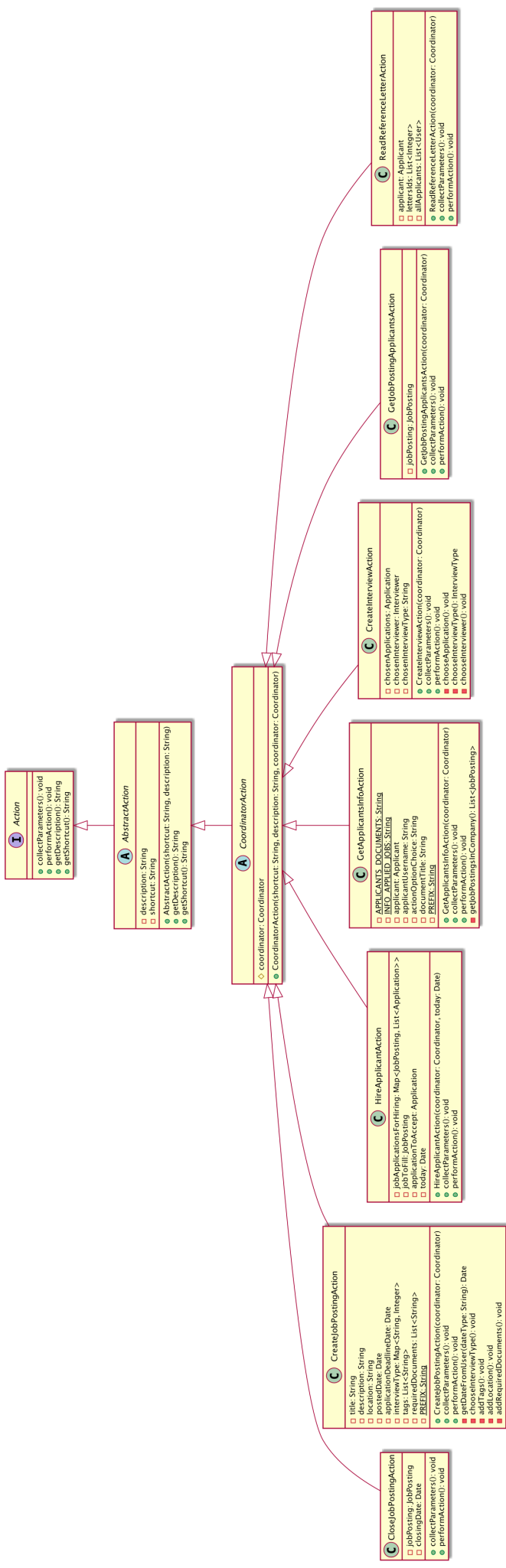
Ⓒ ReadDocumentAction
□ document: Document
● ReadDocumentAction(applicant: Applicant)
● collectParameters(): void
● performAction(): void

Ⓒ UploadDocumentAction
□ userName: String
□ docName: String
□ fileName: String
● UploadDocumentAction(applicant: Applicant)
● collectParameters(): void
● performAction(): void

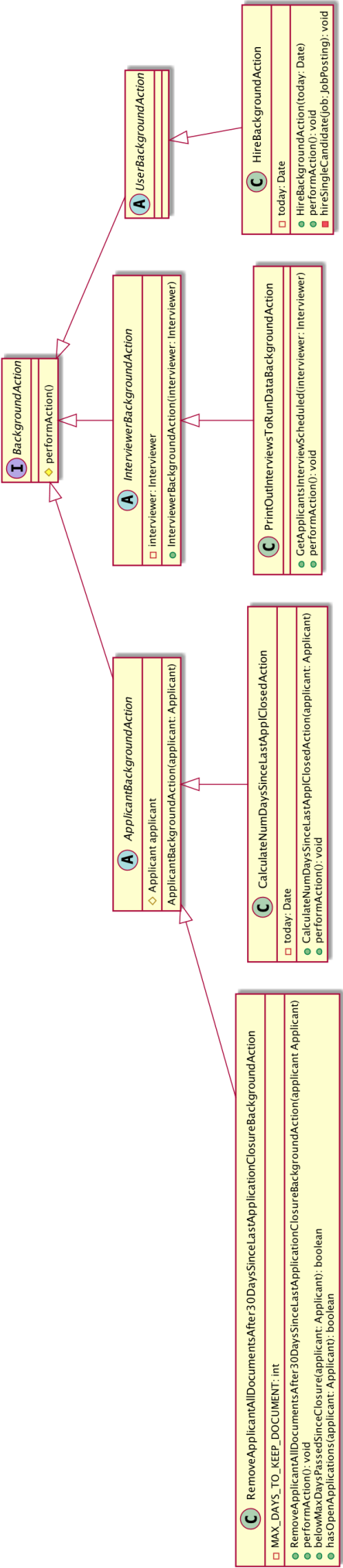
# Base & Interviewer & Referee & User Actions



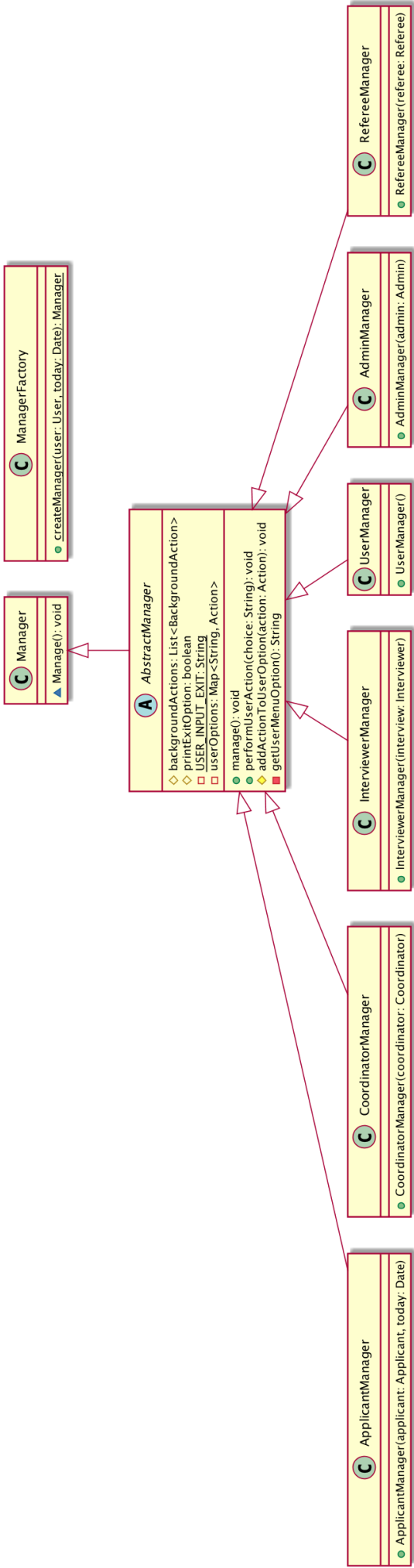
## Coordinator Actions



Background Actions



Managers



Documents

DocumentDatabase

docs: HashMap<String, UserDocuments>

STORAGE\_PATH: String

TEST\_PATH: String

OC\_PATH: String

Instance: DocumentDatabase

DocumentDatabase()

getInstance(): DocumentDatabase

switchStorage(): void

switchTest(): void

getUserDocuments(username: String): UserDocuments

size(): int

addDocument(ownerUsername: String, path: String, name: String)

getDocument(ownerUsername: String, path: String, name: String)

getDocument(name: String, ownerUsername: String): Document

getDocument(documentId: int): Document

removeDocument(documentId: int, ownerUsername: String): Document

removeDocument(name: String, ownerUsername: String): void

setInstance(ownerUsername: String, path: String, name: String): void

getReferent(ownerUsername: String, name: String): Path

addReferentLater(referentUsername: String, applicantUsername: String, path: String)

StoreLogin

userData: Path

StoreLogin(userData: Path)

StoreLogin()

addUser(username: String, password: String): void

login(username: String, password: String): boolean

getUsernames(): ArrayList<String>

checkValidCharacters(s: String): boolean

getLogins(): HashMap<String, String>

SaveAndLoad

String

Path: final

Path testPath: final

currentPath = path: Path

applicationNextId: int

jobPostingNextId: int

companyNextId: int

documentNextId: int

interviewNextId: int

switchPathRun(): void

switchPathTest(): void

saveProgram(): void

loadProgram(): void

userLoopCompanies: List<Company>, users: List<User>, void

findCompanies: List<Company>, List<User>, List<User>, void

findCompanies: List<Company>, List<Company>, id: int, Company

getCompanyDict(companies: List<Company>): HashMap<Integer, Company>

getJobPostingDict(users: List<User>): HashMap<Application, Applicant>

getJobPostingLoopCompanies: List<Company>, users: List<User>, void

GsonManager

serializeDocumentDatabase(DocumentDatabase documentDatabase): String

deserializeDocumentDatabase(json: String): DocumentDatabase

serializeRecruitmentSystem(recruitmentSystem: RecruitmentSystem): String

deserializeRecruitmentSystem(json: String): RecruitmentSystem

UserDocuments

HashMap<Integer, Document> contents;

UserDocuments()

addDocument(document: Document): void

getDocument(documentId: int): Document

getDocument(name: String): Document

removeDocument(documentId: int): void

getContents(): HashMap<Integer, Document>

size(): int

Document

path: Path

nextId: int

name: String

documentId: int

ownerUsername: String

getPath(): Path

getName(): String

getOwnerUsername(): String

getDocumentId(): int

getContents(): ArrayList<String>

printContents(): void

clearNext(): void

setNextId(): void

InterfaceAdapter

serialize(Object: T, interfaceType: Type, context: JsonSerializationContext): JsonElement

deserialize(JsonElement jsonElement, interfaceType: Type, context: JsonDeserializationContext): T

typeName(JsonElement jsonElement): Type

getWrapper(JsonObject jsonObject, memberName: String): JsonElement



## Tools

### ConsoleColors

- Omitted: a list of public static final Strings representing ConsoleColors

### InputHandler

- EMPTY\_STRING: String
- scanner: Scanner
- instance: InputHandler
- USER\_INPUT\_STOP: String
- InputHandler(scanner: Scanner)
- getInstance(): InputHandler
- nextLine(): String
- getValueFromUser(msg: String, prefix: String): String
- getDate(): Date
- setScanner(scanner: Scanner): void
- static collectMultipleStrings(subject: String): List<String>

### OutputHandler

- printJobPostingsList(List<JobPosting> jobPostings, String jobStatus): void
- printApplicationsList(applications: List<Application>): void
- printUserInfo(users: List<User>, userType: String): void
- printApplicationInfo(application: Application): void
- printApplicationInterviewsInfo(application: Application): void
- printJobPostingsWithApplications(jobPostingsWithApplications: Map<JobPosting, List<Application>>): void
- printJobPostingRequirements(jobPosting: JobPosting): void
- formatDate(date: Date): String