view model presenter **StartView** View Presenter Model **MemberArchive** - displayMenu(): void scanner: Scanner ----- Use ------ model: Model · persistenceStorage: PersistenceStorage - memberList: ArrayList<Member> + savedDataExistsMessage(): void · memberArchive: MemberArchive + readChar(): char + start(): void + addMember(String, String): void + savedDataMissingMessage(): void - memberCreate(): void + addMember(String, String): void + deleteMember(int): void + readString(): String + readInt(): int memberDelete(): void + deleteMember(int): void + changeMemberName(int, String): void **EndView** + changeMemberName(int, String): void + changeMemberPersonalNumber(int, String): void + readDouble(): double memberChange(): void + displayMenu(): void + existsMember(int): boolean + displayMenu(): void - memberLookAt(): void + changeMemberPersonalNumber(int, String): void · listCompact(): void + displayMenu(String): void + existsMember(int): boolean + memberToString(int): String **OptionsView** + inputMemberNumber(): int · listVerbose(): void + getMemberData(int): String + getNumberOfMembers(): int + displayMenu(): void + inputMemberName(): String - boatRegister(): void + addBoat(int, String, double): void + getCompactList(): ArrayList<String[]> + inputMemberPersonalNumber(): String boatDelete(): void + deleteBoat(int, int): void + getVerboseList(): ArrayList<String[][]> + noSuchMemberMessage(int): void boatChange(): void + changeBoatType(int, int, String): void + addBoat(int, String, double): void **VariousView** + inputBoatNumber(): int memberDataSave(): void + changeBoatLength(int, int, double): void + deleteBoat(int, int): void + answerOutOfRangeMessage(): void ,'Use + inputBoatType(): String programEnd(): void + existsBoat(int, int): boolean + changeBoatType(int, int, String): void + memberDataSaveMessage(boolean): void ,'Use + inputBoatLength(): double answerOutOfRange(): void + getBoatData(int, int): String + changeBoatLength(int, int, Double): void + noSuchBoatMessage(int): + save(): boolean + existsBoat(int, int): boolean MemberChangeView 'Use' + boatToString(int, int): String + load(): void + displayMenu(): void + existsFile(): boolean + inputMemberName(): String Use, + getCompactList(): ArrayList<String> + inputMemberPersonalNumber(): String Use + getVerboseList(): ArrayList<String> Member **MemberCreateView** - name: String Úse ; + displayMenu(): void personalNumber: String memberNumber: int PersistenceStorage **MemberDeleteView** ;'Use - boatList: ArrayList<Boat> - fileName: String + displayMenu(): void + setName(String): void + save(Object): boolean + setPersonalNumber(String): void + load(): Object **MemberLookAtView** + setMemberNumber(int): void + displayMenu(): void + getName(): String + displayMemberInfo(): String + getPersonalNumber(): String + getMemberNumber(): int **BoatChangeView** + addBoat(String, double): void + displayMenu(): void + removeBoat(int): void + changeBoatType(int, String): void **BoatDeleteView** + changeBoatLength(int, double): void + displayMenu(): void + getNumberOfBoats(): int + boatToString(int): String **BoatRegisterView** + existsBoat(int): boolean + displayMenu(): void + getCompactData(): String[] + getVerboseData(): String[][] ListCompactView + toString(): String formatter: Formatter + displayMenu(): void + displayCompactList(ArrayList<String>): void **Boat** - type: String ListVerboseView - length: double formatter: Formatter + setType(String): void + displayMenu(): void + setLength(double): void + displayVerboseList(ArrayList<String>): void + getType(): String + getLength(): double + toString(): String