
LoginController
@Autowired
- private UserRepository userRepository;
@Autowired
- private AstronomerRepository astronomerRepository;
@Autowired
- private ScienceObserverRepository scienceObserverRepository;
+showLoginPage() : String
+ login(String username, String password, String role(): Object
+ showsignupPage() : String
+ addNewUser(String username, String password, String role(): Object
+ getAllUsers() : Iterable<User>
+getAllScienceObserver() : Iterable<ScienceObserver>
+getAllAstronomer() : Iterable<Astronomer>
User
-username : string
-password : string
-role : string
+ login()
+ signup()
Astronomer
-astronomerID : int
+getAstronomerAll() : String
ScienceObserver
-scienceObserverID : int
+getScienceObserverAll() : String
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SciecncePlanController
+test()
+ createSciencePlan(int planNo, String creator, String submitter, double fundingInUSD, String objectives, String starSystem, String startDate, String endDate, SciencePlan.TELESCOPE.LOC telescopeLocation, String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue): Object
+ submitSciencePlan(int planNo) : ModelAndView
+getByPlanNo(int planNo) : ModelAndView
+testSciencePlan(SciencePlan sp) : String
+showAstronomerCreateSPPage() : String
+showAstronomerSubmitSPPage() : String
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ObservingProgramController
+getAllSciencePlans(Model model) : String
+ showScienceObserverCreateOP(): String
+ getByPlanNo(int planNo) : ModelAndView
+ createObservingProgram(SciencePlan sp, String opticsPrimary, double fStop, double opticsSecondaryIMS, double scienceFoldMirrorDegree, ObservingProgramConfigs.FoldMirrorType scienceFoldMirrorType, int moduleContent, ObservingProgramConfigs.CalibrationUnit calibrationUnit, ObservingProgramConfigs.LightType lightType, TelePositionPair[] telePositionPair) : ModelAndView
+ getAllObservingPrograms(Model model) : String
SciencePlanModelGDDG
- creator : String
- submitter : String
- fundingInUSD : double
- objectives : String
- startDate : Date
- endDate : Date
- fileType : String
- fileQuality : String
- colorType : String
- contrast : double
- brightness : double
- saturation : double
- highlights : double
- exposure : double
- shadows : double
- whites : double
- blacks : double
- luminance : double
- hue : double
+ sciencePlan()
+ sciencePlan(String creator, String submitter, double fundingInUSD, String objectives, StarSystem.CONSTELLATION starSystem, Date startDate, Date endDate, SciencePlan.TELESCOPE.LOC telescopeLocation, String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue)
+ getter and setter for all method
+ getCreator() : String
+ setCreator(String) : void
+ getSubmitter() : String
+ setSubmitter(String) : void
+ getFundingInUSD() : double
+ setFundingInUSD(double) : void
+ getObjectives() : String
+ setObjectives(String) : void
+ getStarSystem() : StarSystem.CONSTELLATION
+ setStarSystem(StarSystem.CONSTELLATION) : void
+ getStartDate() : String
+ setStartDate(String) : void
+ setStartDate(Date) : void
+ getEndDate() : String
+ setEndDate(String) : void
+ setEndDate(Date) : void
+ getTelescopeLocation() : SciencePlan.TELESCOPE.LOC
+ setTelescopeLocation(SciencePlan.TELESCOPE.LOC) : void
+ getDataProcRequirements() : ArrayList<DataProcRequirement>
+ setDataProcRequirements(String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue) : void
+ getPlanNo() : int
+ setPlanNo(int) : void
+ getStatus() : SciencePlan.STATUS
+ setStatus(SciencePlan.STATUS) : void
+toString() : String
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ObservingProgramModelGDDG
- planNo : int
- opticsPrimary : String
- fStop : double
- opticsSecondaryIMS : double
- scienceFoldMirrorDegree : double
- scienceFoldMirrorType : ObservingProgramConfigs.FoldMirrorType
- moduleContent : int
- calibrationUnit : ObservingProgramConfigs.CalibrationUnit
- lightType : ObservingProgramConfigs.LightType[]
- telePositionPair : TelePositionPair[]
+observingProgram()
+observingProgram(int planNo, String opticsPrimary, double fStop, double opticsSecondaryIMS, double scienceFoldMirrorDegree, ObservingProgramConfigs.FoldMirrorType scienceFoldMirrorType, int moduleContent, ObservingProgramConfigs.CalibrationUnit calibrationUnit, ObservingProgramConfigs.LightType lightType, TelePositionPair[] telePositionPair)
+ getPlanNo() : int
+ setPlanNo(int) : void
+ getDescription() : String
+ setDescription(String) : void
+ getOpticsPrimary() : String
+ setOpticsPrimary(String) : void
+ setFStop(double) : void
+ getFStop() : double
+ getOpticsSecondaryIMS() : double
+ setOpticsSecondaryIMS(double) : void
+ getScienceFoldMirrorDegree() : double
+ setScienceFoldMirrorDegree(double) : void
+ getScienceFoldMirrorType() : ObservingProgramConfigs.FoldMirrorType
+ setScienceFoldMirrorType(ObservingProgramConfigs.FoldMirrorType) : void
+ getModuleContent() : int
+ setModuleContent(int) : void
+ getCalibrationUnit() : ObservingProgramConfigs.CalibrationUnit
+ setCalibrationUnit(ObservingProgramConfigs.CalibrationUnit) : void
+ getLightType() : ObservingProgramConfigs.LightType
+ setLightType(ObservingProgramConfigs.LightType) : void
+ getTelePositionPair() : TelePositionPair[]
+ setTelePositionPair(TelePositionPair[]) : void
+ getValidationStatus() : boolean
+ setValidationStatus(boolean) : void
+ validateObservingCondition(ObservingProgram) : ObservingProgram
+ toString() : String
SciencePlan
- creator : String
- submitter : String
- fundingInUSD : double
- objectives : String
- startDate : Date
- endDate : Date
- fileType : String
- fileQuality : String
- colorType : String
- contrast : double
- brightness : double
- saturation : double
- highlights : double
- exposure : double
- shadows : double
- whites : double
- blacks : double
- luminance : double
- hue : double
+ sciencePlan()
+ sciencePlan(String creator, String submitter, double fundingInUSD, String objectives, StarSystem.CONSTELLATION starSystem, Date startDate, Date endDate, SciencePlan.TELESCOPE.LOC telescopeLocation, String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue)
+ getter and setter for all method
+ getCreator() : String
+ setCreator(String) : void
+ getSubmitter() : String
+ setSubmitter(String) : void
+ getFundingInUSD() : double
+ setFundingInUSD(double) : void
+ getObjectives() : String
+ setObjectives(String) : void
+ getStarSystem() : StarSystem.CONSTELLATION
+ setStarSystem(StarSystem.CONSTELLATION) : void
+ getStartDate() : String
+ setStartDate(String) : void
+ setStartDate(Date) : void
+ getEndDate() : String
+ setEndDate(String) : void
+ setEndDate(Date) : void
+ getTelescopeLocation() : SciencePlan.TELESCOPE.LOC
+ setTelescopeLocation(SciencePlan.TELESCOPE.LOC) : void
+ getDataProcRequirements() : ArrayList<DataProcRequirement>
+ setDataProcRequirements(String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue) : void
+ getPlanNo() : int
+ setPlanNo(int) : void
+ getStatus() : SciencePlan.STATUS
+ setStatus(SciencePlan.STATUS) : void
+toString() : String
ObservingProgramModelGDDG
- planNo : int
- opticsPrimary : String
- fStop : double
- opticsSecondaryIMS : double
- scienceFoldMirrorDegree : double
- scienceFoldMirrorType : ObservingProgramConfigs.FoldMirrorType
- moduleContent : int
- calibrationUnit : ObservingProgramConfigs.CalibrationUnit
- lightType : ObservingProgramConfigs.LightType[]
- telePositionPair : TelePositionPair[]
+observingProgram()
+observingProgram(int planNo, String opticsPrimary, double fStop, double opticsSecondaryIMS, double scienceFoldMirrorDegree, ObservingProgramConfigs.FoldMirrorType scienceFoldMirrorType, int moduleContent, ObservingProgramConfigs.CalibrationUnit calibrationUnit, ObservingProgramConfigs.LightType lightType, TelePositionPair[] telePositionPair)
+ getPlanNo() : int
+ setPlanNo(int) : void
+ getDescription() : String
+ setDescription(String) : void
+ getOpticsPrimary() : String
+ setOpticsPrimary(String) : void
+ setFStop(double) : void
+ getFStop() : double
+ getOpticsSecondaryIMS() : double
+ setOpticsSecondaryIMS(double) : void
+ getScienceFoldMirrorDegree() : double
+ setScienceFoldMirrorDegree(double) : void
+ getScienceFoldMirrorType() : ObservingProgramConfigs.FoldMirrorType
+ setScienceFoldMirrorType(ObservingProgramConfigs.FoldMirrorType) : void
+ getModuleContent() : int
+ setModuleContent(int) : void
+ getCalibrationUnit() : ObservingProgramConfigs.CalibrationUnit
+ setCalibrationUnit(ObservingProgramConfigs.CalibrationUnit) : void
+ getLightType() : ObservingProgramConfigs.LightType
+ setLightType(ObservingProgramConfigs.LightType) : void
+ getTelePositionPair() : TelePositionPair[]
+ setTelePositionPair(TelePositionPair[]) : void
+ getValidationStatus() : boolean
+ setValidationStatus(boolean) : void
+ validateObservingCondition(ObservingProgram) : ObservingProgram
+ toString() : String
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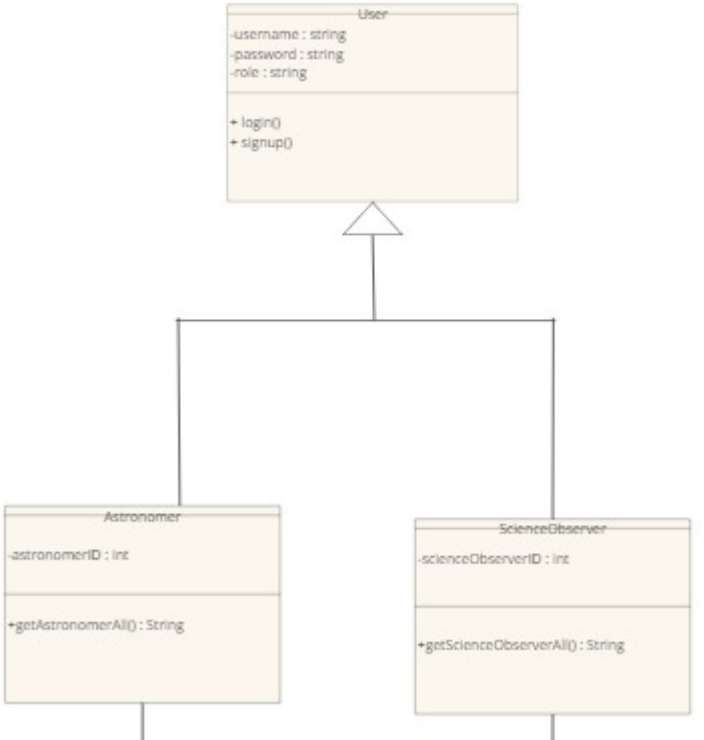
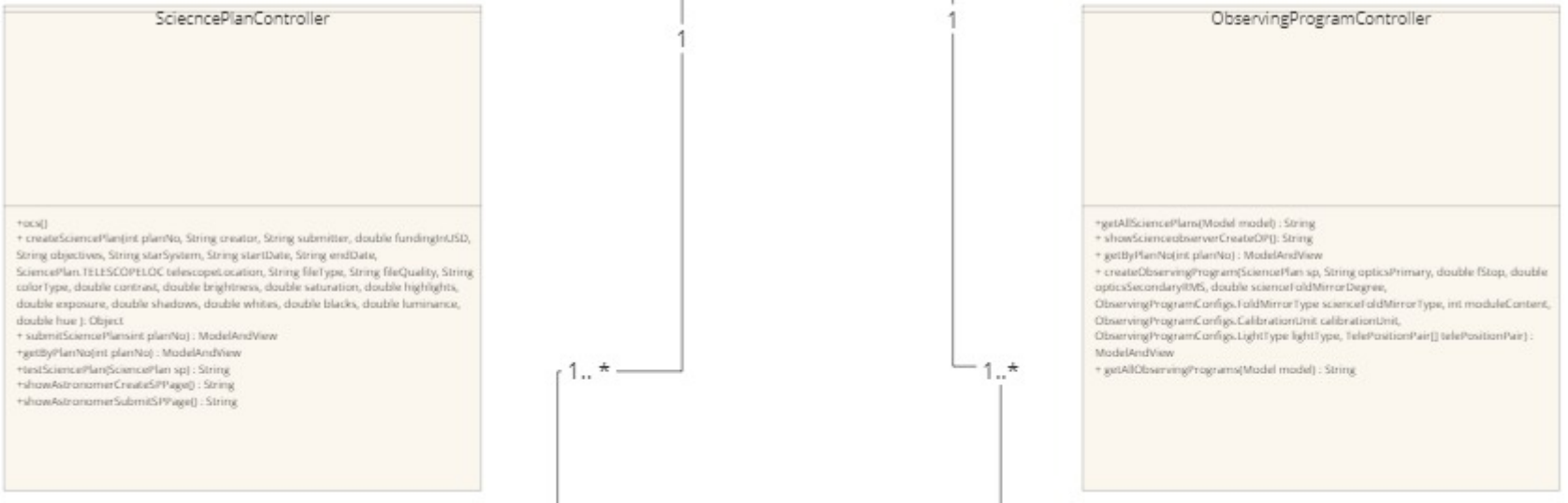
Data Processing Request
- fileType : String
- fileQuality : String
- colorType : String
- contrast : double
- brightness : double
- saturation : double
- highlights : double
- exposure : double
- shadows : double
- whites : double
- blacks : double
- luminance : double
- hue : double
DataProcRequirement(String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue)
+ getFileType() : String
+ setFileType(String) : void
+ getFileQuality() : String
+ setFileQuality(String) : void
+ getColorType() : String
+ setColorType(String) : void
+ getContrast() : double
+ setContrast(double) : void
+ getBrightness() : double
+ setBrightness(double) : void
+ getSaturation() : double
+ setSaturation(double) : void
+ getHighlights() : double
+ setHighlights(double) : void
+ getExposure() : double
+ setExposure(double) : void
+ getShadows() : double
+ setShadows(double) : void
+ getWhites() : double
+ setWhites(double) : void
+ getBlacks() : double
+ setBlacks(double) : void
+ getLuminance() : double
+ setLuminance(double) : void
+ getHue() : double
+ setHue(double) : void

LoginController

@Autowired
- private UserRepository userRepository;
@Autowired
- private AstronomerRepository astronomerRepository;
@Autowired
- private ScienceObserverRepository scienceObserverRepository;

+showLoginPage() : String
+ login(String username, String password, String role)): Object
+ showsignupPage() : String
+ addNewUser(String username, String password, String role)): Object
+ getAllUsers() : Iterable<User>
+getAllSciencObserver() : Iterable<ScienceObserver>
+getAllAstronomer() : Iterable<Astronomer>




SciecncePlanController
+ocs()
+ createSciencePlan(int planNo, String creator, String submitter, double fundingInUSD, String objectives, String starSystem, String startDate, String endDate, SciencePlan.TELESCOPELOC telescopeLocation, String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue): Object
+ submitSciencePlans(int planNo) : ModelAndView
+getByPlanNo(int planNo) : ModelAndView
+testSciencePlan(SciencePlan sp) : String
+showAstronomerCreateSPPage() : String
+showAstronomerSubmitSPPage() : String
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1..*
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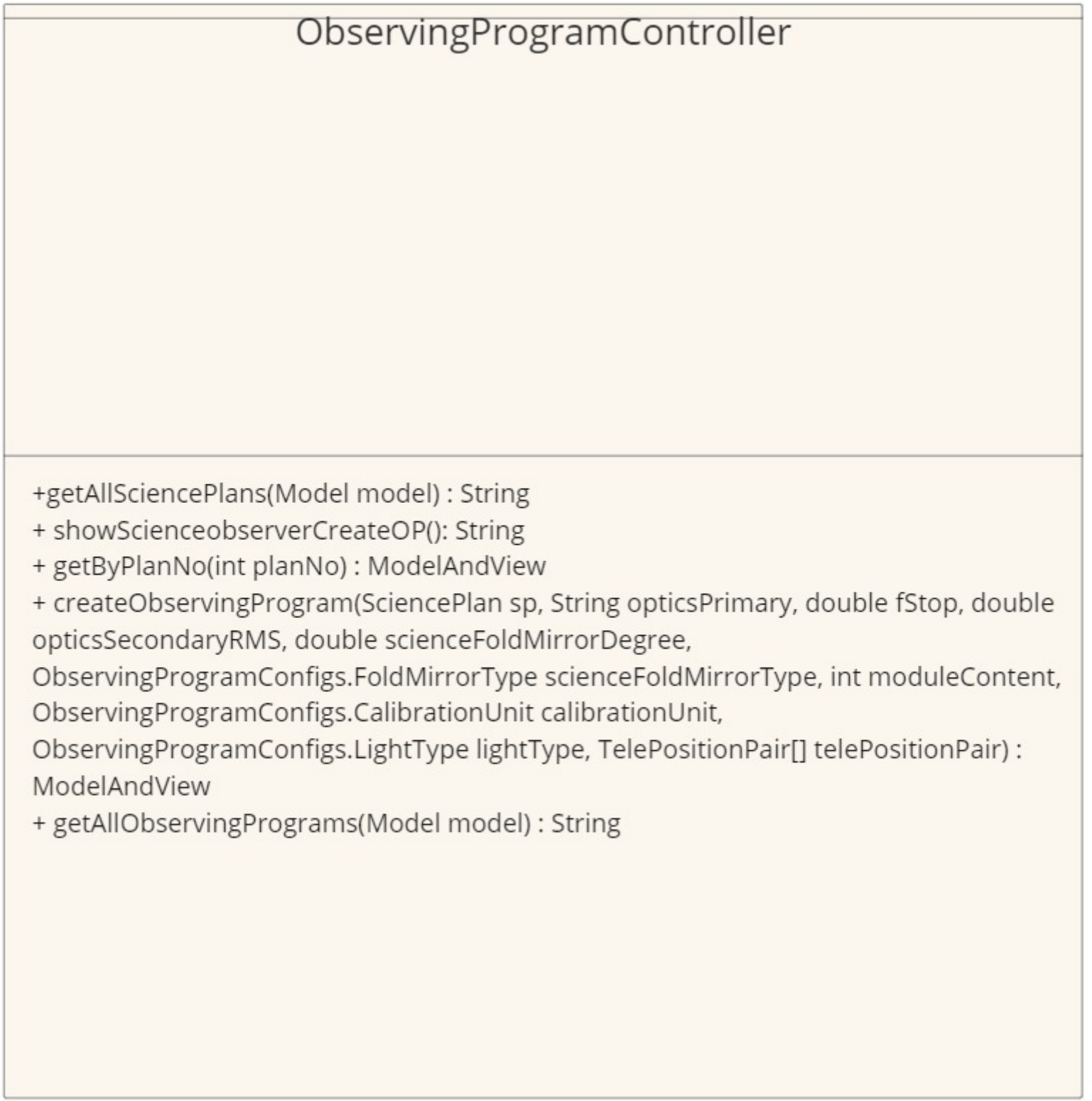
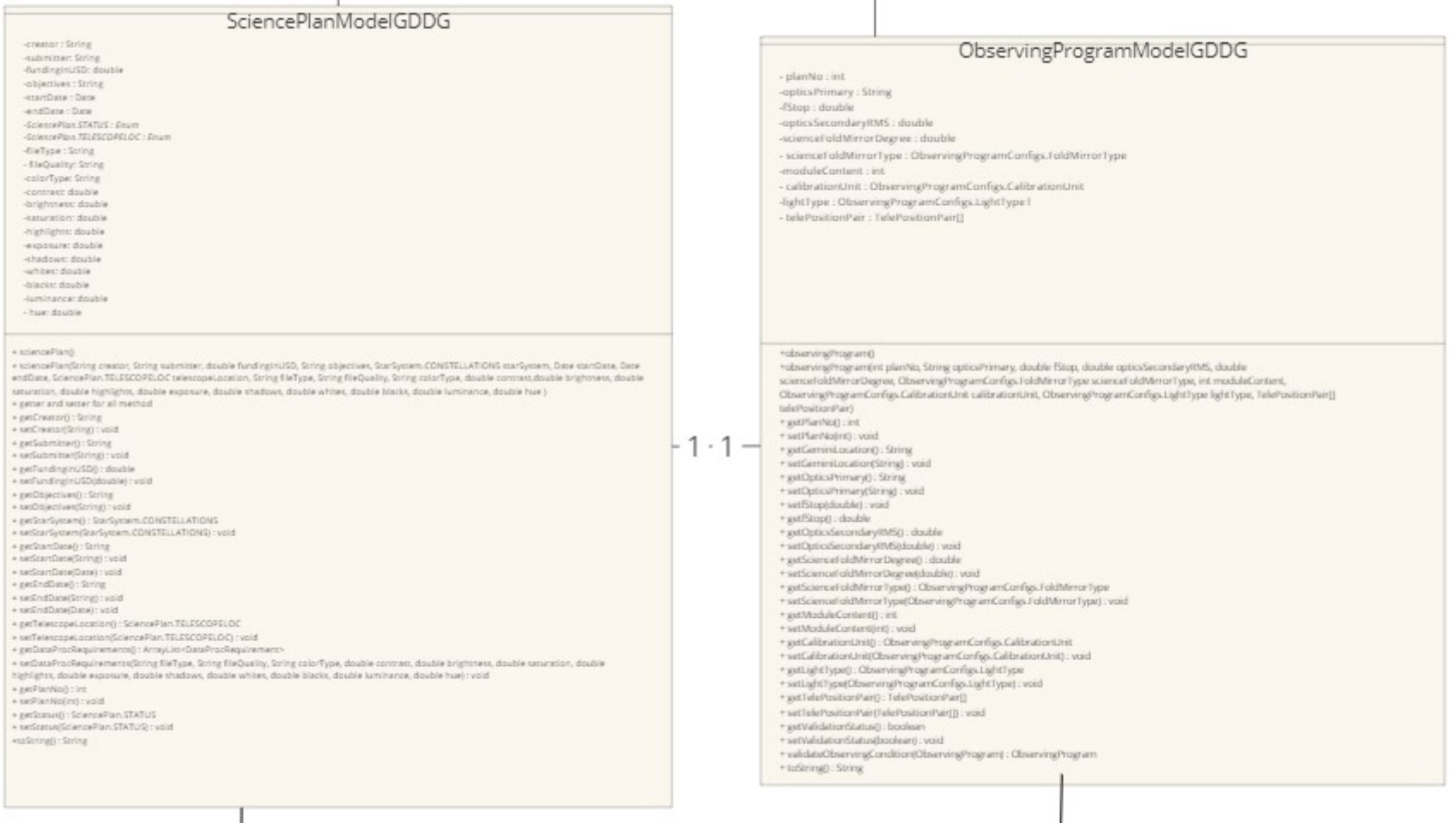
1..*
ObservingProgramController
+getAllSciencePlans(Model model) : String
+ showScienceObserverCreateOP(): String
+ getByPlanNo(int planNo) : ModelAndView
+ createObservingProgram(SciencePlan sp, String opticsPrimary, double fStop, double opticsSecondaryRMS, double scienceFoldMirrorDegree, ObservingProgramConfigs.FoldMirrorType scienceFoldMirrorType, int moduleContent, ObservingProgramConfigs.CalibrationUnit calibrationUnit, ObservingProgramConfigs.LightType lightType, TelePositionPair[] telePositionPair) : ModelAndView
+ getAllObservingPrograms(Model model) : String

SciecncePlanController

+ocs()
+ createSciencePlan(int planNo, String creator, String submitter, double fundingInUSD, String objectives, String starSystem, String startDate, String endDate, SciencePlan.TELESCOPELOC telescopeLocation, String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue): Object
+ submitSciencePlansint planNo) : ModelAndView
+getByPlanNo(int planNo) : ModelAndView
+testSciencePlan(SciencePlan sp) : String
+showAstronomerCreateSPPage() : String
+showAstronomerSubmitSPPage() : String


ObservingProgramController
+getAllSciencePlans(Model model) : String
+ showScienceobserverCreateOP(): String
+ getByPlanNo(int planNo) : ModelAndView
+ createObservingProgram(SciencePlan sp, String opticsPrimary, double fStop, double opticsSecondaryRMS, double scienceFoldMirrorDegree, ObservingProgramConfigs.FoldMirrorType scienceFoldMirrorType, int moduleContent, ObservingProgramConfigs.CalibrationUnit calibrationUnit, ObservingProgramConfigs.LightType lightType, TelePositionPair[] telePositionPair) : ModelAndView
+ getAllObservingPrograms(Model model) : String


SciencePlanModelGDDG
-creator : String
-submitter: String
-fundingInUSD: double
-objectives : String
-startDate : Date
-endDate : Date
-SciencePlan.STATUS : Enum
-SciencePlan.TELESCOPELOC : Enum
-fileType : String
- fileQuality: String
-colorType: String
-contrast: double
-brightness: double
-saturation: double
-highlights: double
-exposure: double
-shadows: double
-whites: double
-blacks: double
-luminance: double
- hue: double
+ sciencePlan()
+ sciencePlan(String creator, String submitter, double fundingInUSD, String objectives, StarSystem.CONSTELLATIONS starSystem, Date startDate, Date endDate, SciencePlan.TELESCOPELOC telescopeLocation, String fileType, String fileQuality, String colorType, double contrast,double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue)
+ getser and setter for all method
+ getCreator() : String
+ setCreator(String) : void
+ getSubmitter() : String
+ setSubmitter(String) : void
+ getFundingInUSD() : double
+ setFundingInUSD(double) : void
+ getObjectives() : String
+ setObjective(String) : void
+ getStarSystem() : StarSystem.CONSTELLATIONS
+ setStarSystem(StarSystem.CONSTELLATIONS) : void
+ getStartDate() : String
+ setStartDate(String) : void
+ setStartDate(Date) : void
+ getEndDate() : String
+ setEndDate(String) : void
+ setEndDate(Date) : void
+ getTelescopeLocation() : SciencePlan.TELESCOPELOC
+ setTelescopeLocation(SciencePlan.TELESCOPELOC) : void
+ getDataProcRequirements() : ArrayList<DataProcRequirement>
+ setDataProcRequirements(String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue) : void
+ getPlanNo() : int
+ setPlanNo(int) : void
+ getStatus() : SciencePlan.STATUS
+ setStatus(SciencePlan.STATUS) : void
+toString() : String
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ObservingProgramModelGDDG
- planNo : int
-opticsPrimary : String
-fStop : double
-opticsSecondaryIfMS : double
-scienceFoldMirrorDegree : double
- scienceFoldMirrorType : ObservingProgramConfigs.FoldMirrorType
-moduleContent : int
- calibrationUnit : ObservingProgramConfigs.CalibrationUnit
-lightType : ObservingProgramConfigs.LightType
- telePositionPair : TelePositionPair[]
+observingProgram()
+observingProgram(int planNo, String opticsPrimary, double fStop, double opticsSecondaryIfMS, double scienceFoldMirrorDegree, ObservingProgramConfigs.FoldMirrorType scienceFoldMirrorType, int moduleContent, ObservingProgramConfigs.CalibrationUnit calibrationUnit, ObservingProgramConfigs.LightType lightType, TelePositionPair[] telePositionPair)
+ getPlanNo() : int
+ setPlanNo(int) : void
+ getGeminiLocation() : String
+ setGeminiLocation(String) : void
+ getOpticsPrimary() : String
+ setOpticsPrimary(String) : void
+ setFStop(double) : void
+ getFStop() : double
+ getOpticsSecondaryIfMS() : double
+ setOpticsSecondaryIfMS(double) : void
+ getScienceFoldMirrorDegree() : double
+ setScienceFoldMirrorDegree(double) : void
+ getScienceFoldMirrorType() : ObservingProgramConfigs.FoldMirrorType
+ setScienceFoldMirrorType(ObservingProgramConfigs.FoldMirrorType) : void
+ getModuleContent() : int
+ setModuleContent(int) : void
+ getCalibrationUnit() : ObservingProgramConfigs.CalibrationUnit
+ setCalibrationUnit(ObservingProgramConfigs.CalibrationUnit) : void
+ getLightType() : ObservingProgramConfigs.LightType
+ setLightType(ObservingProgramConfigs.LightType) : void
+ getTelePositionPair() : TelePositionPair[]
+ setTelePositionPair(TelePositionPair[]) : void
+ getValidationStatus() : boolean
+ setValidationStatus(boolean) : void
+ validateObservingCondition(ObservingProgram) : ObservingProgram
+ toString() : String

SciencePlanModelGDDG

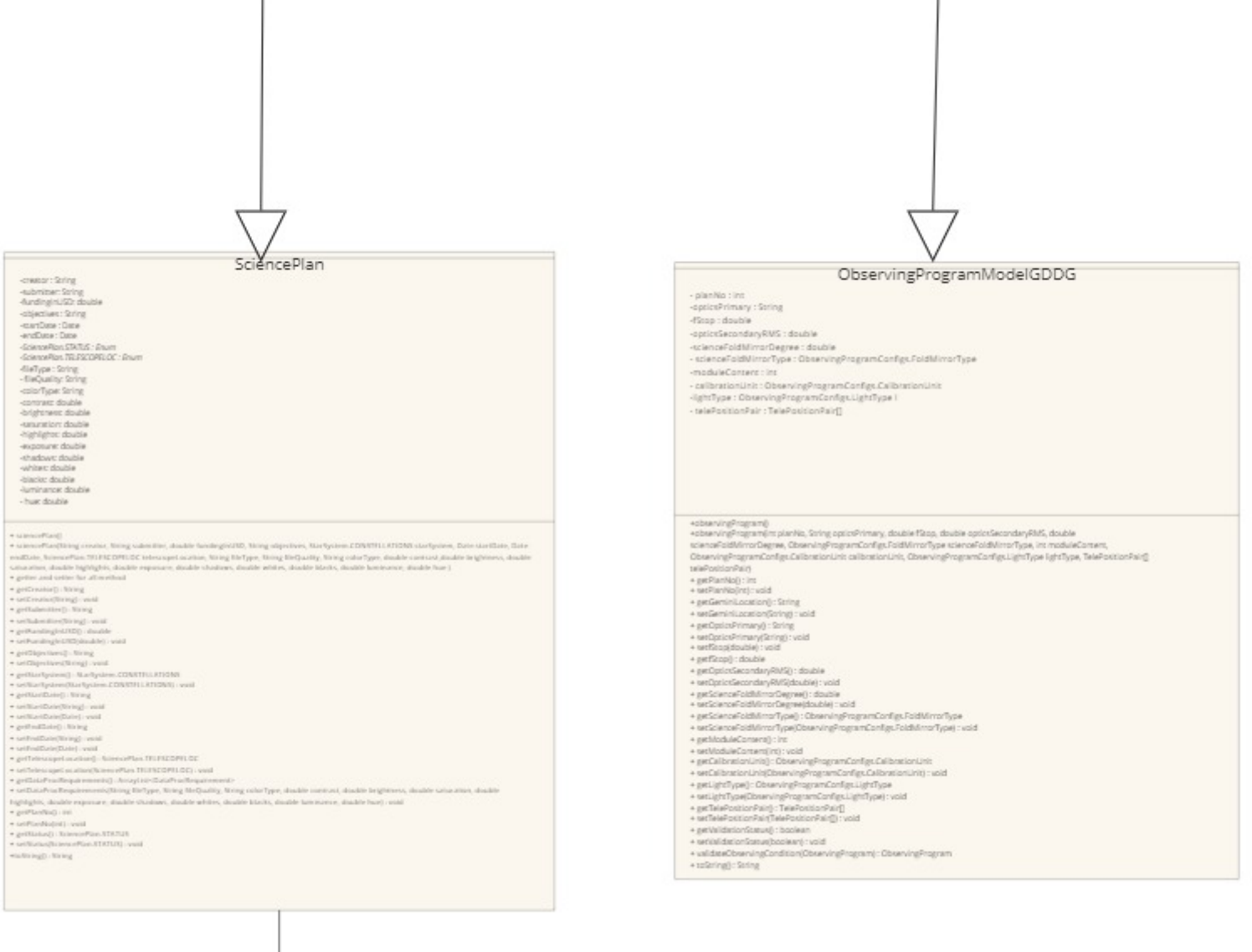
-creator : String
-submitter: String
-fundingInUSD: double
-objectives : String
-startDate : Date
-endDate : Date
-SciencePlan.STATUS : Enum
-SciencePlan.TELESCOPELOC : Enum
-fileType : String
- fileQuality: String
-colorType: String
-contrast: double
-brightness: double
-saturation: double
-highlights: double
-exposure: double
-shadows: double
-whites: double
-blacks: double
-luminance: double
- hue: double

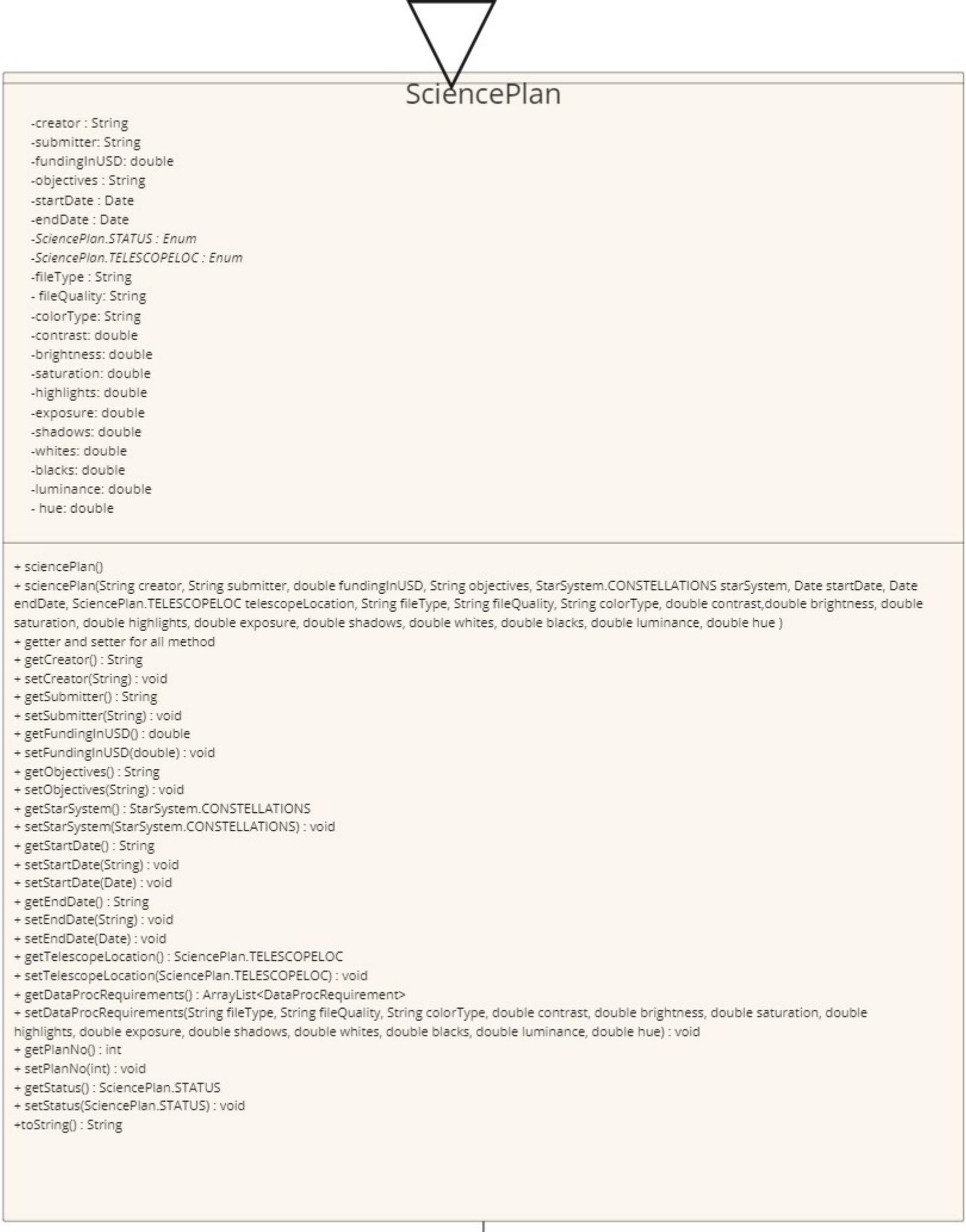
+ sciencePlan()
+ sciencePlan(String creator, String submitter, double fundingInUSD, String objectives, StarSystem.CONSTELLATIONS starSystem, Date startDate, Date endDate, SciencePlan.TELESCOPELOC telescopeLocation, String fileType, String fileQuality, String colorType, double contrast,double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue)
+ getter and setter for all method
+ getCreator() : String
+ setCreator(String) : void
+ getSubmitter() : String
+ setSubmitter(String) : void
+ getFundingInUSD() : double
+ setFundingInUSD(double) : void
+ getObjectives() : String
+ setObjectives(String) : void
+ getStarSystem() : StarSystem.CONSTELLATIONS
+ setStarSystem(StarSystem.CONSTELLATIONS) : void
+ getStartDate() : String
+ setStartDate(String) : void
+ setStartDate(Date) : void
+ getEndDate() : String
+ setEndDate(String) : void
+ setEndDate(Date) : void
+ getTelescopeLocation() : SciencePlan.TELESCOPELOC
+ setTelescopeLocation(SciencePlan.TELESCOPELOC) : void
+ getDataProcRequirements() : ArrayList<DataProcRequirement>
+ setDataProcRequirements(String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue) : void
+ getPlanNo() : int
+ setPlanNo(int) : void
+ getStatus() : SciencePlan.STATUS
+ setStatus(SciencePlan.STATUS) : void
+toString() : String

ObservingProgramModelGDDG

- planNo : int
-opticsPrimary : String
-fStop : double
-opticsSecondaryRMS : double
-scienceFoldMirrorDegree : double
- scienceFoldMirrorType : ObservingProgramConfigs.FoldMirrorType
-moduleContent : int
- calibrationUnit : ObservingProgramConfigs.CalibrationUnit
-lightType : ObservingProgramConfigs.LightType l
- telePositionPair : TelePositionPair[]

+observingProgram()
+observingProgram(int planNo, String opticsPrimary, double fStop, double opticsSecondaryRMS, double scienceFoldMirrorDegree, ObservingProgramConfigs.FoldMirrorType scienceFoldMirrorType, int moduleContent, ObservingProgramConfigs.CalibrationUnit calibrationUnit, ObservingProgramConfigs.LightType lightType, TelePositionPair[] telePositionPair)
+ getPlanNo() : int
+ setPlanNo(int) : void
+ getGeminiLocation() : String
+ setGeminiLocation(String) : void
+ getOpticsPrimary() : String
+ setOpticsPrimary(String) : void
+ setfStop(double) : void
+ getfStop() : double
+ getOpticsSecondaryRMS() : double
+ setOpticsSecondaryRMS(double) : void
+ getScienceFoldMirrorDegree() : double
+ setScienceFoldMirrorDegree(double) : void
+ getScienceFoldMirrorType() : ObservingProgramConfigs.FoldMirrorType
+ setScienceFoldMirrorType(ObservingProgramConfigs.FoldMirrorType) : void
+ getModuleContent() : int
+ setModuleContent(int) : void
+ getCalibrationUnit() : ObservingProgramConfigs.CalibrationUnit
+ setCalibrationUnit(ObservingProgramConfigs.CalibrationUnit) : void
+ getLightType() : ObservingProgramConfigs.LightType
+ setLightType(ObservingProgramConfigs.LightType) : void
+ getTelePositionPair() : TelePositionPair[]
+ setTelePositionPair(TelePositionPair[]) : void
+ getValidationStatus() : boolean
+ setValidationStatus(boolean) : void
+ validateObservingCondition(ObservingProgram) : ObservingProgram
+ toString() : String


SciencePlan
-creator : String
-submitter: String
-fundingInUSD: double
-objectives : String
-startDate : Date
-endDate : Date
-SciencePlan.STATUS : Enum
-SciencePlan.TELESCOPELOC : Enum
-fileType : String
- fileQuality: String
-colorType: String
-contrast: double
-brightness: double
-saturation: double
-highlights: double
-exposure: double
-shadows: double
-whites: double
-blacks: double
-luminance: double
- hue: double
+ sciencePlan()
+ sciencePlan(String creator, String submitter, double fundingInUSD, String objectives, StarSystem.CONSTELLATIONS starSystem, Date startDate, Date endDate, SciencePlan.TELESCOPELOC telescopeLocation, String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue)
+ getter and setter for all overload
+ getCreator() : String
+ setCreator(String) : void
+ getSubmitter() : String
+ setSubmitter(String) : void
+ getFundingInUSD() : double
+ setFundingInUSD(double) : void
+ getObjectives() : String
+ setObjectives(String) : void
+ getStarSystem() : StarSystem.CONSTELLATIONS
+ setStarSystem(StarSystem.CONSTELLATIONS) : void
+ getStartDate() : String
+ setStartDate(String) : void
+ setStartDate(Date) : void
+ getEndDate() : String
+ setEndDate(String) : void
+ setEndDate(Date) : void
+ getTelescopeLocation() : SciencePlan.TELESCOPELOC
+ setTelescopeLocation(SciencePlan.TELESCOPELOC) : void
+ getDataProcRequirements() : ArrayList<DataProcRequirement>
+ setDataProcRequirements(String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue) : void
+ getPlanNo() : int
+ setPlanNo(int) : void
+ getStatus() : SciencePlan.STATUS
+ setStatus(SciencePlan.STATUS) : void
+toString() : String
ObservingProgramModelGDDG
- planNo : int
-opticsPrimary : String
-fStop : double
-opticsSecondaryRMS : double
-scienceFoldMirrorDegree : double
- scienceFoldMirrorType : ObservingProgramConfigs.FoldMirrorType
-moduleContent : int
- calibrationUnit : ObservingProgramConfigs.CalibrationUnit
-lightType : ObservingProgramConfigs.LightType
- telePositionPair : TelePositionPair[]
+observingProgram()
+observingProgram(int planNo, String opticsPrimary, double fStop, double opticsSecondaryRMS, double scienceFoldMirrorDegree, ObservingProgramConfigs.FoldMirrorType scienceFoldMirrorType, int moduleContent, ObservingProgramConfigs.CalibrationUnit calibrationUnit, ObservingProgramConfigs.LightType lightType, TelePositionPair[] telePositionPair)
+ getPlanNo() : int
+ setPlanNo(int) : void
+ getGeminiLocation() : String
+ setGeminiLocation(String) : void
+ getOpticsPrimary() : String
+ setOpticsPrimary(String) : void
+ setfStop(double) : void
+ getfStop() : double
+ getOpticsSecondaryRMS() : double
+ setOpticsSecondaryRMS(double) : void
+ getScienceFoldMirrorDegree() : double
+ setScienceFoldMirrorDegree(double) : void
+ getScienceFoldMirrorType() : ObservingProgramConfigs.FoldMirrorType
+ setScienceFoldMirrorType(ObservingProgramConfigs.FoldMirrorType) : void
+ getModuleContent() : int
+ setModuleContent(int) : void
+ getCalibrationUnit() : ObservingProgramConfigs.CalibrationUnit
+ setCalibrationUnit(ObservingProgramConfigs.CalibrationUnit) : void
+ getLightType() : ObservingProgramConfigs.LightType
+ setLightType(ObservingProgramConfigs.LightType) : void
+ getTelePositionPair() : TelePositionPair[]
+ setTelePositionPair(TelePositionPair[]) : void
+ getValidationStatus() : boolean
+ setValidationStatus(boolean) : void
+ validateObservingCondition(ObservingProgram) : ObservingProgram
+ toString() : String


SciencePlan
-creator : String
-submitter: String
-fundingInUSD: double
-objectives : String
-startDate : Date
-endDate : Date
-SciencePlan.STATUS : Enum
-SciencePlan.TELESCOPELOC : Enum
-fileType : String
- fileQuality: String
-colorType: String
-contrast: double
-brightness: double
-saturation: double
-highlights: double
-exposure: double
-shadows: double
-whites: double
-blacks: double
-luminance: double
- hue: double
+ sciencePlan()
+ sciencePlan(String creator, String submitter, double fundingInUSD, String objectives, StarSystem.CONSTELLATIONS starSystem, Date startDate, Date endDate, SciencePlan.TELESCOPELOC telescopeLocation, String fileType, String fileQuality, String colorType, double contrast,double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue)
+ getter and setter for all method
+ getCreator() : String
+ setCreator(String) : void
+ getSubmitter() : String
+ setSubmitter(String) : void
+ getFundingInUSD() : double
+ setFundingInUSD(double) : void
+ getObjectives() : String
+ setObjectives(String) : void
+ getStarSystem() : StarSystem.CONSTELLATIONS
+ setStarSystem(StarSystem.CONSTELLATIONS) : void
+ getStartDate() : String
+ setStartDate(String) : void
+ setStartDate(Date) : void
+ getEndDate() : String
+ setEndDate(String) : void
+ setEndDate(Date) : void
+ getTelescopeLocation() : SciencePlan.TELESCOPELOC
+ setTelescopeLocation(SciencePlan.TELESCOPELOC) : void
+ getDataProcRequirements() : ArrayList<DataProcRequirement>
+ setDataProcRequirements(String fileType, String fileQuality, String colorType, double contrast, double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue) : void
+ getPlanNo() : int
+ setPlanNo(int) : void
+ getStatus() : SciencePlan.STATUS
+ setStatus(SciencePlan.STATUS) : void
+toString() : String

ObservingProgramModelGDDG

- planNo : int
-opticsPrimary : String
-fStop : double
-opticsSecondaryRMS : double
-scienceFoldMirrorDegree : double
- scienceFoldMirrorType : ObservingProgramConfigs.FoldMirrorType
-moduleContent : int
- calibrationUnit : ObservingProgramConfigs.CalibrationUnit
-lightType : ObservingProgramConfigs.LightType l
- telePositionPair : TelePositionPair[]

+observingProgram()
+observingProgram(int planNo, String opticsPrimary, double fStop, double opticsSecondaryRMS, double scienceFoldMirrorDegree, ObservingProgramConfigs.FoldMirrorType scienceFoldMirrorType, int moduleContent, ObservingProgramConfigs.CalibrationUnit calibrationUnit, ObservingProgramConfigs.LightType lightType, TelePositionPair[] telePositionPair)
+ getPlanNo() : int
+ setPlanNo(int) : void
+ getGeminiLocation() : String
+ setGeminiLocation(String) : void
+ getOpticsPrimary() : String
+ setOpticsPrimary(String) : void
+ setfStop(double) : void
+ getfStop() : double
+ getOpticsSecondaryRMS() : double
+ setOpticsSecondaryRMS(double) : void
+ getScienceFoldMirrorDegree() : double
+ setScienceFoldMirrorDegree(double) : void
+ getScienceFoldMirrorType() : ObservingProgramConfigs.FoldMirrorType
+ setScienceFoldMirrorType(ObservingProgramConfigs.FoldMirrorType) : void
+ getModuleContent() : int
+ setModuleContent(int) : void
+ getCalibrationUnit() : ObservingProgramConfigs.CalibrationUnit
+ setCalibrationUnit(ObservingProgramConfigs.CalibrationUnit) : void
+ getLightType() : ObservingProgramConfigs.LightType
+ setLightType(ObservingProgramConfigs.LightType) : void
+ getTelePositionPair() : TelePositionPair[]
+ setTelePositionPair(TelePositionPair[]) : void
+ getValidationStatus() : boolean
+ setValidationStatus(boolean) : void
+ validateObservingCondition(ObservingProgram) : ObservingProgram
+ toString() : String

Data Processing Request

-fileType : String
- fileQuality: String
-colorType: String
-contrast: double
-brightness: double
-saturation: double
-highlights: double
-exposure: double
-shadows: double
-whites: double
-blacks: double
-luminance: double
- hue: double

DataProcRequirements (String fileType, String fileQuality, String colorType, double contrast,double brightness, double saturation, double highlights, double exposure, double shadows, double whites, double blacks, double luminance, double hue)
+ getFileType(): String
+ setFileType(String): void
+ getFileQuality(): String
+ setFileQuality(String): void
+ getColorType(): String
+ setColorType(String): void
+ getContrast(): double
+ setContrast(double): void
+ getBrightness(): double
+ setBrightness(double): void
+ getSaturation(): double
+ setSaturation(double): void
+ getHighlights(): double
+ setHighlights(double): void
+ getExposure(): double
+ setExposure(double): void
+ getShadows(): double
+ setShadows(double): void
+ getWhites(): double
+ setWhites(double): void
+ getBlacks(): double
+ setBlacks(double): void
+ getLuminance(): double
+ setLuminance(double): void
+ getHue(): double
+ setHue(double): void