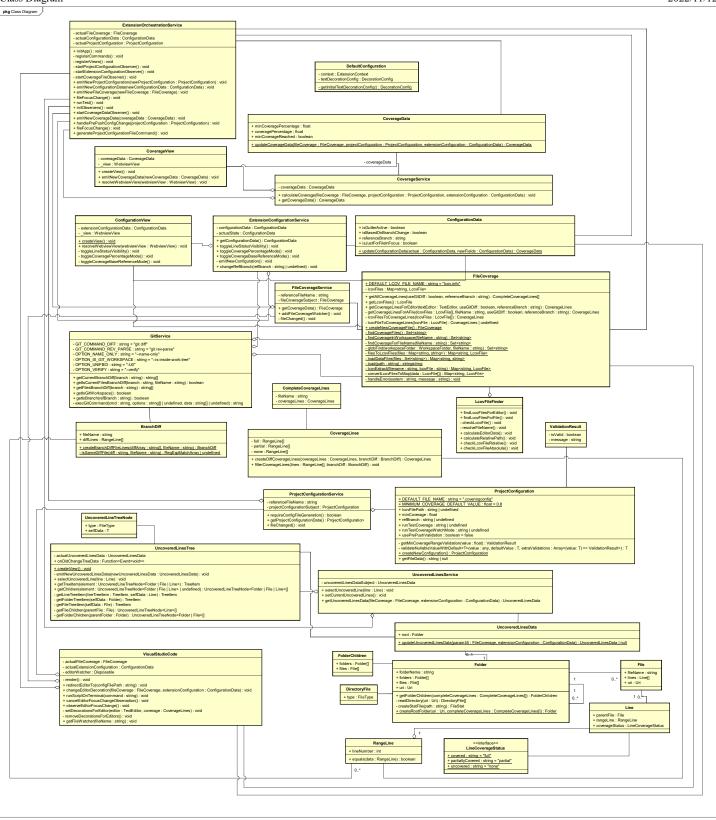
Class Diagram 2022/11/12



Class Diagram Coverage 2022/11/12

Coverage

CoverageData

CoverageData

+ minCoveragePercentage : float
+ coveragePercentage : float
+ minCoverageReached : boolean
+ minCoverageReached : boolean

+ updateCoverageData(fileCoverage : FileCoverage , projectConfiguration : ProjectConfiguration : ConfigurationData) : CoverageData

- coverageData : CoverageData : CoverageData
- \_ view : WebviewView

+ createView() : void
+ emitNewCoverageData : CoverageData : CoverageData) : void
+ resolveWebviewView(WebviewView : WebviewView) : void

pkg Class Diagram Extension Configuration

# **Extension Configuration**

## ConfigurationData

- + isGutterActive : boolean
- + isBasedOnBranchChange : boolean
- + referenceBranch : string
- + isJustForFileInFocus : boolean
- + updateConfigurationData(actual: ConfigurationData, newFields: ConfigurationData): CoverageData

## ExtensionConfigurationService

- configurationData : ConfigurationData
- actualState : ConfigurationData
- + getConfigurationData() : ConfigurationData
- + toggleLineStatusVisibility(): void + toggleCoveragePercentageMode(): void
- + toggleCoverageBaseReferenceMode(): void
- emitNewConfiguration() : void + changeRefBranch(refBranch : string | undefined) : void

## ConfigurationView

- extensionConfigurationData : ConfigurationData
- \_view : WebviewView
- + createView() : void + resolveWebviewView(webviewView : WebviewView) : void toggleLineStatusVisibility() : void
- toggleCoveragePercentageMode(): void
- toggleCoverageBaseReferenceMode(): void

Class Diagram File Coverage 2022/11/12

pkg Class Diagram File Coverage

#### File Coverage

#### FileCoverage

- + DEFAULT\_LCOV\_FILE\_NAME : string = "lcov.info"
- IcovFiles : Map<string, LcovFile>
- + get All Coverage Lines (use Git Diff: boolean, reference Branch: string): Complete Coverage Lines []
- + getLcovFiles() : LcovFile
- + getCoverageLinesForEditor(textEditor: TextEditor, useGitDiff: boolean, referenceBranch: string): CoverageLinesForEditor(textEditor: TextEditor): CoverageLinesForEditor(textEditor: TextEditor: TextEditor:
- getCoverageLinesForAFile(IcovFiles : LcovFile[], fileName : string, useGitDiff : boolean, referenceBranch : string) : CoverageLines
- lcovFilesToCoverageLines(lcovFiles : LcovFile[]) : CoverageLines
- IcovFileToCoverageLines(IcovFile : LcovFile) : CoverageLines | undefined
- + createNewCoverageFile(): FileCoverage
- findCoverageFiles(): Set<string>
- findCoverageInWorkspace(fileName : string) : Set<string>
- findCoverageForFileName(fileName : string) : Set<string>
- globFind(workspaceFolder : WorkspaceFolder, fileName : string) : Set<string>
- filesToLcovFiles(files : Map<string, string>) : Map<string, LcovFile>
- loadDataFiles(files : Set<string>) : Map<string, string>
- load(path : string) : stringstring
- lcovExtract(filename : string, lcovFile : string) : Map<string, LcovFile>
- convertLcovFilesToMap(data : LcovFile[]) : Map<string, LcovFile>
- handleError(system : string, message : string) : void

## FileCoverageService

- referenceFileName : string
- fileCoverageSubject : FileCoverage
- + getCoverageData(): FileCoverage
- + addFileCoverageWatcher() : void
- fileChanged(): void

#### CoverageLines

- full : RangeLine[]
- partial : RangeLine[]
- none : RangeLine[]
- + createDiffCoverageLines(coverageLines : CoverageLines, branchDiff : BranchDiff) : CoverageLines
- + filterCoverageLines(lines : RangeLine[], branchDiff : BranchDiff) : void

pkg Class Diagram Project Configuration

## **Project Configuration**

#### ProjectConfiguration

- + DEFAULT\_FILE\_NAME : string = ".coveringconfig" + MINIMUM\_COVERAGE\_DEFAULT\_VALUE : float = 0.8 + lcovFilePath : string | undefined
- + minCoverage : float
- + refBranch : string | undefined
- + runTestCoverage : string | undefined
- + runTestCoverageWatchMode : string | undefined + usePrePushValidation : boolean = false

- getMinCoverageRangeValidation(value : float) : ValidationResult
   validateNullableValueWithDefault<T>(value : any, defaultValue : T, extraValidations : Array<(value: T) => ValidationResult>) : T
- + createNewConfiguration(): ProjectConfiguration
- + getFileData() : string | null

## ProjectConfigurationService

- referenceFileName : string
- projectConfigurationSubject : ProjectConfiguration
- + requireConfigFileGeneration(): boolean
- + getProjectConfigurationData(): ProjectConfiguration
- + fileChanged(): void

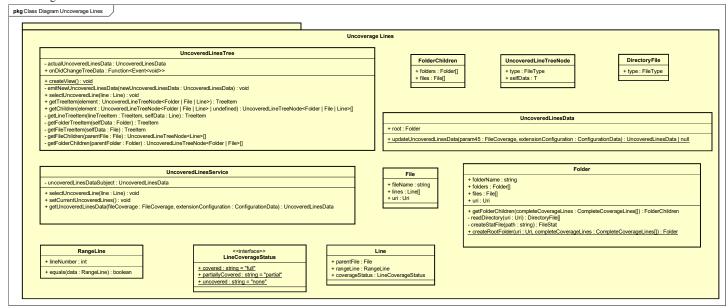
Class Diagram UI 2022/11/12

pkg Class Diagram Orchestration

## ExtensionOrchestrationService

- actualFileCoverage : FileCoverage
- actualConfigurationData : ConfigurationData
- actualProjectConfiguration : ProjectConfiguration
- + initApp() : void registerCommands() : void
- registerViews() : void startProjectConfigurationObserver() : void
- startExtensionConfigurationObserver(): void
- startCoverageFileObserver(): void + emitNewProjectConfiguration(newProjectConfiguration): void + emitNewConfigurationData(newConfigurationData): void
- + emitNewFileCoverage(newFileCoverage : FileCoverage) : void
- + fileFocusChange(): void
- + runTest() : void + initObservers() : void
- + startCoverageDataObserver(): void
- + emitNewCoverageData(coverageData : CoverageData) : void
- $+ \ handle Pre Push Config Change (project Configuration: Project Configuration): void$
- + fileFocusChange(): void
- + generateProjectConfigurationFileCommand(): void

Class Diagram Uncovered Lines 2022/11/12



Class Diagram Version Control 2022/11/12

pkg Class Diagram Version Control

## **Version Control**

## GitService

- GIT\_COMMAND\_DIFF : string = "git diff"

- GIT\_COMMAND\_DIFF : Stiffig git diff
   GIT\_COMMAND\_REV\_PARSE : string = "git rev-parse"
   OPTION\_NAME\_ONLY : string = "--name-only"
   OPTION\_IS\_GIT\_WORKSPACE : string = "--is-inside-work-tree"
   OPTION\_UNIFIED : string = "--U0"
   OPTION\_VERIFY : string = "--verify"

- + getCurrentBranchDiff(branch : string) : string[]
- + getIsCurrentFilesBranchDiff(branch: string, fileName: string): boolean
- + getFilesBranchDiff(branch : string) : string[]
- + getlsGitWorkspace() : boolean
- + getIsBranch(refBranch : string) : boolean
- execGitCommand(cmd : string, options : string[] | undefined, data : string[] | undefined) : string

## BranchDiff

- + fileName : string
- + diffLines : RangeLine[]
- + createBranchDiffFileLines(diffArray: string[], fileName: string): BranchDiff - isSameDiffFile(diff : string, fileName : string) : RegExpMatchArray | undefined

pkg Class Diagram Visual Studio Code

## Visual Studio Code

## VisualStudioCode

- actualFileCoverage : FileCoverage actualExtensionConfiguration : ConfigurationData
- editorWatcher : Disposable
- render() : void
- + redirectEditorTo(configFilePath : string) : void
- $+\ change Editor Decoration (file Coverage: File Coverage,\ extension Configuration: Configuration Data): void$
- + runScriptOnTerminal(command : string) : void + cancelEditorFocusChangeObservation() : void
- + observeEditorFocusChange() : void
- setDecorationsForEditor(editor: TextEditor, coverage: CoverageLines): void
- removeDecorationsForEditors(): void + getFileWatcher(fileName: string): void