Diagram: CCodeAnalyser

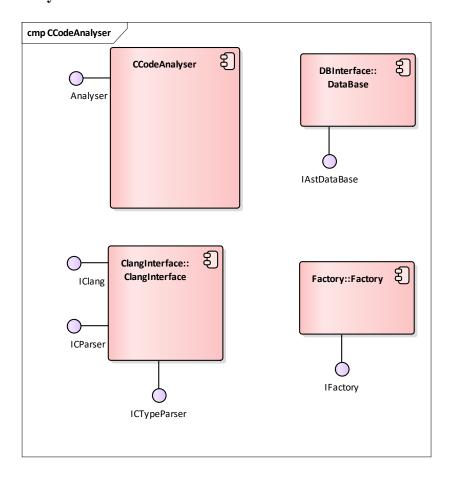


Diagram: CCodeAnalyser

CCodeAnalyser - _factory: IFactory = null - _ProjectModel: ProjectModel = null + Analyse(string[]): CXml + CCodeAnalyser() + GetFactory(): IFactory + GetProjectModel(): ProjectModel

Diagram: ClangInterface

class ClangInterface

ClangInterface

- _CurrentTu: TranslationUnit
- _Index: Index
- _Model: ProjectModel
- _Parser: ICParser
- CurrentBaseHash: string = ""
- Clang_FindFunctions(string): void
- Clang_FindGlobalVariable(string): void
- Clang_SetProjectModel(ProjectModel): void
- ClangInterface(IFactory)
- ComputeFileMd5(string): string

CParser

- _DB: IAstDataBase
- _typeParser: ICTypeParser
- CParser(IFactory)
- CParser_VisitFunctionCursor(Cursor): CElement CParser_VisitVariableCursor(Cursor): CElement

CTypeParser

- _DB: IAstDataBase
- _Factory: IFactory = null
- CTypeParser(IFactory)
- CTypeParser_ParseDataType(ClangSharp.Type): CElement
- visitArithMeticType(ClangSharp.Type): CElement
- visitArrayType(ClangSharp.Type): CElement visitEnumType(ClangSharp.Type): CElement
- visitFunctionprototype(ClangSharp.Type): CElement
- visitPointerType(ClangSharp.Type): CElement visitStructOrUnionType(ClangSharp.Type): CElement
- visitTypeDefType(ClangSharp.Type): CElement

Diagram: DBInterface

Class DBInterface StringWriter Utf8StringWriter {leaf} «property» + Encoding(): Encoding AstDataBase - _factory: IFactory = null - ElementMap: Dictionary<string, CElement> = new Dictionary<... + AstDataBase(IFactory) + AstDB_AddElement(CElement): void + AstDB_FindAndAddElement(CElement): CElement + AstDB_FindElement(string): CElement + PublishDataBase(string): CXml

Diagram: Factory

class Factory

ClangFactory

- _Clang: ClangInterface.ClangInterface = null
- _DB: IAstDataBase = null
- _parser: ICParser = null
- _SourceGroups: Dictionary<string, string> = null
- _SWCType: Dictionary<string, SWCType> = null
- _TypeParser: ICTypeParser = null
- model: ProjectModel = null
- + ClangFactory()
- + Fac_getClangInterface(): IClang
- + Fac_GetComponentName(CElement): string
- + fac_getCParser(): ICParser
- + Fac_getDataBase(): IAstDataBase
- + Fac_GetInterfaceName(CFunction): string
- + Fac_getProjectModel(string[]): ProjectModel
- + Fac_GetSWCConfig(): Dictionary<string, string>
- + Fac_GetSWCType(): Dictionary<string, SWCType>
- + fac_getTypeParser(): ICTypeParser
- + Fac_GetXmlDataType(CDataType): DataType
- + Fac_GetXmlFunctionType(CFunction): Function
- + Fac_GetXmlVariableType(CVariable): Variable
- parsefile(string): void
- # Updateclangoptions(): void
- updateModel(CommandLineparser): void
- updateSwcConfig(): void

CommandLineparser

- _CommandLineOptions: Dictionary<string, List<string>> = new Dictionary<...</p>
- + Init(): void
- + parseOptions(string[]): void

«property»

+ CommandLineOptions(): Dictionary<string, List<string>>

Diagram: Interfaces

class Interfaces

«interface»

IAstDataBase

- AstDB AddElement(CElement): void
- AstDB_FindAndAddElement(CElement): CElement AstDB_FindElement(string): CElement
- PublishDataBase(string): CXml

«interface» **IClang**

- Clang_FindFunctions(string): void
- Clang_FindGlobalVariable(string): void
 Clang_SetProjectModel(ProjectModel): void

«interface» **ICParser**

- CParser_VisitFunctionCursor(Cursor): CElement
- CParser_VisitVariableCursor(Cursor): CElement

«interface» **ICTypeParser**

- CTypeParser_ParseDataType(ClangSharp.Type): CElement
- visitArithMeticType(ClangSharp.Type): CElement
- visitArrayType(ClangSharp.Type): CElement
- visit Enum Type (Clang Sharp. Type): CElement
- visit Pointer Type (Clang Sharp. Type): C Element
- visit Struct Or Union Type (Clang Sharp. Type): CElement
- visitTypeDefType(ClangSharp.Type): CElement

- Fac_getClangInterface(): IClang
- Fac_GetComponentName(CElement): string
- fac_getCParser(): ICParser

- ${\sf Fac_getProjectModel} ({\sf string[]}) : {\sf ProjectModel}$

- Fac_GetXmlDataType(CDataType): DataType

«interface» **IFactory**

- Fac_getDataBase(): IAstDataBase
- Fac_GetInterfaceName(CFunction): string
- Fac_GetSWCConfig(): Dictionary<string,string>
- Fac_GetSWCType(): Dictionary<string, SWCType>
- fac_getTypeParser(): ICTypeParser
- Fac_GetXmlFunctionType(CFunction): Function
- Fac_GetXmlVariableType(CVariable): Variable

Diagram: Util

class Util

Util

- + ComputeElementMd5(ClangSharp.Cursor): string
- + ComputeMd5(string): string
- + <u>ComputeMd5(ClangSharp.Type): string</u>
- ComputeMd5(ClangSharp.Cursor): string
- + <u>ComputeMd5ForString(string): string</u>

Diagram: Types

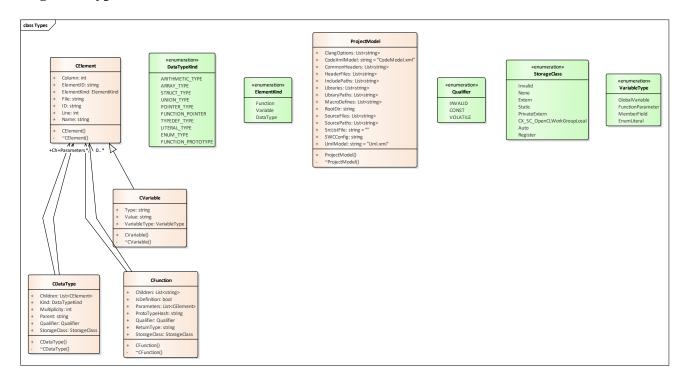


Diagram: Xml

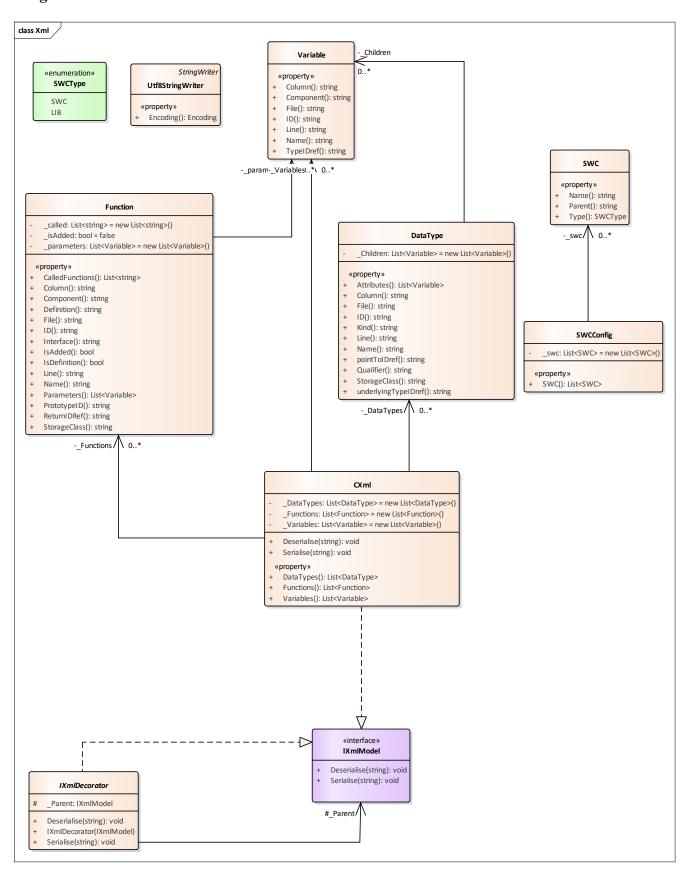


Diagram: Util

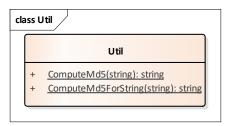


Diagram: ModelGenerator

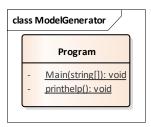


Diagram: MainExecutionSequence

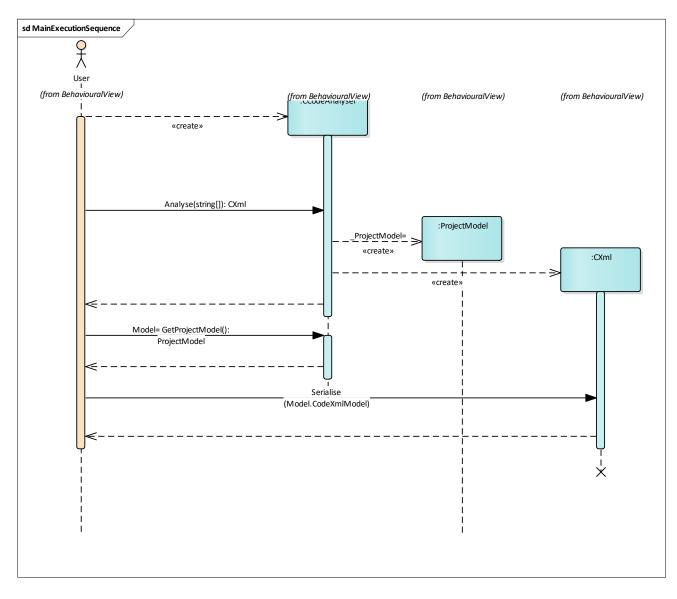


Diagram: ObjectConstruction

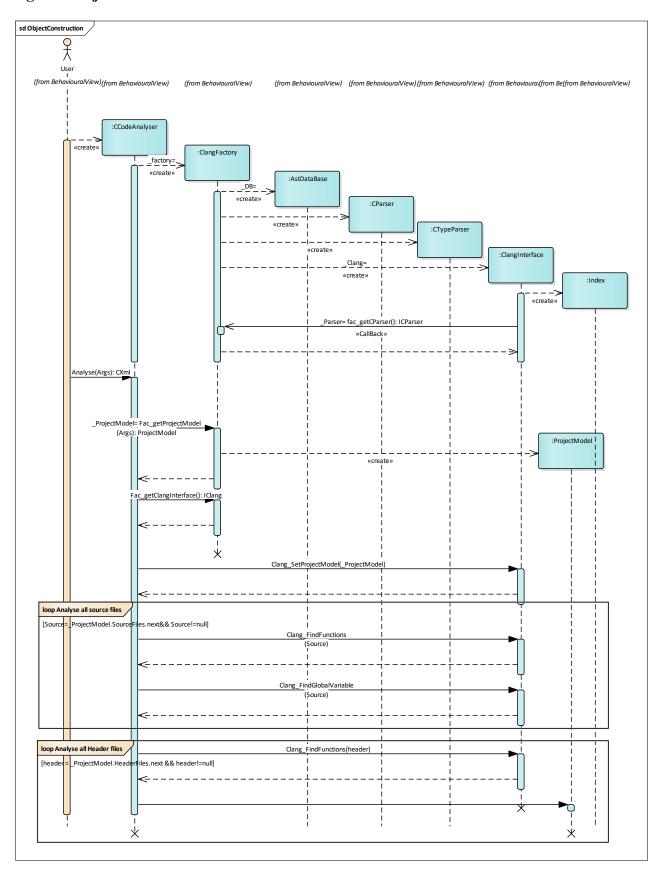


Diagram: FindFunctionPrototypes

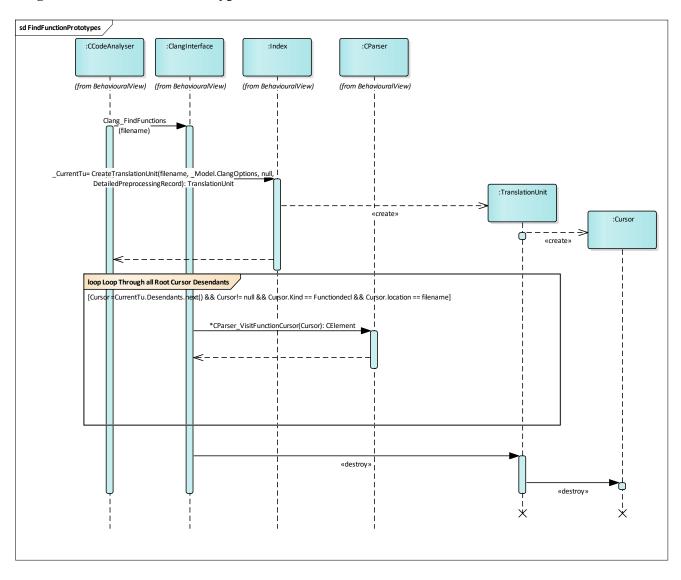


Diagram: ParsingTypes

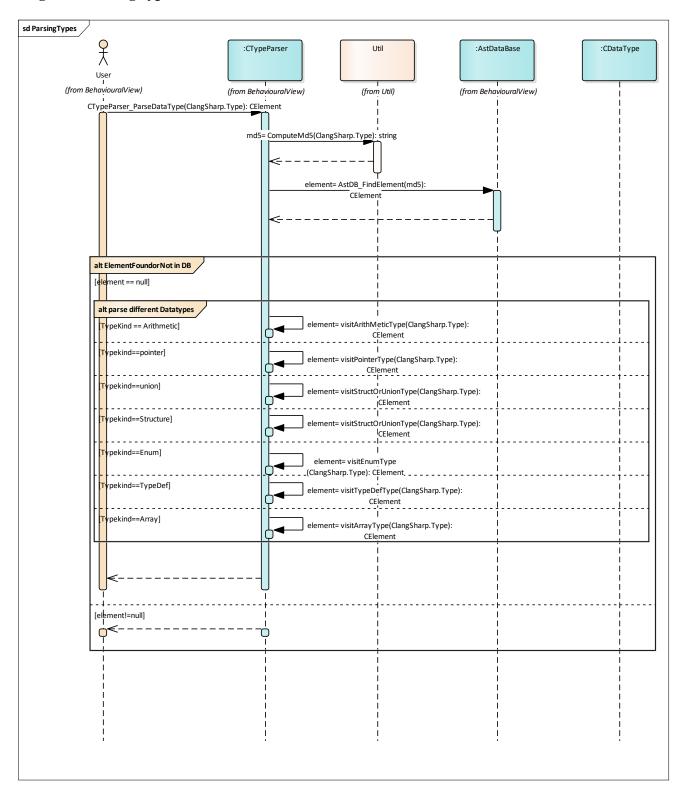


Diagram: ParsingFunctionPrototypes

