

devc++githubsrs

Software Engineering (Lovely Professional University)

1. Introduction: - The introduction of the software Requirements Specification (SRS) provides an overview of the entire SRS with purpose, scope, definitions, acronyons, above vications, references and overview of the SRS. The aim of this document is to gather and analyze and give an in-depth insight of the complete DEV C++ by defining the problem statement in detail. Nevertheless, it also concentrates on the capabilités required by stakeholders and their needs while defining high-level product features. The detailed requirements of the marvel DEV C++ are provided in this documents. 1.1 Purpose: The purpose of the document is to collect and analyze all assorted ideas that have come up to define the system, it's requirements with respect to consumers. Also, we shall predict and sort out how we hope this product will be used in order to gain a better understanding of the project, outlines concepts that may be developed later and document ideas that are being considered, but may be discard as the product develops. In short, the purpose of this SRS document is to provide a detailed overview of our software product, its parameters and goals. This document describes the projects target audience and its user interface, hardworne and software requirements. It defines how our client, team and audience see the product and its functionality. Nonethe -less, its helps cmy designer and developer to assist in software delivery life leyele (SDLC) processes. 1.2 Scope: - This project is intended for making use to compiling and ctt for great experience.

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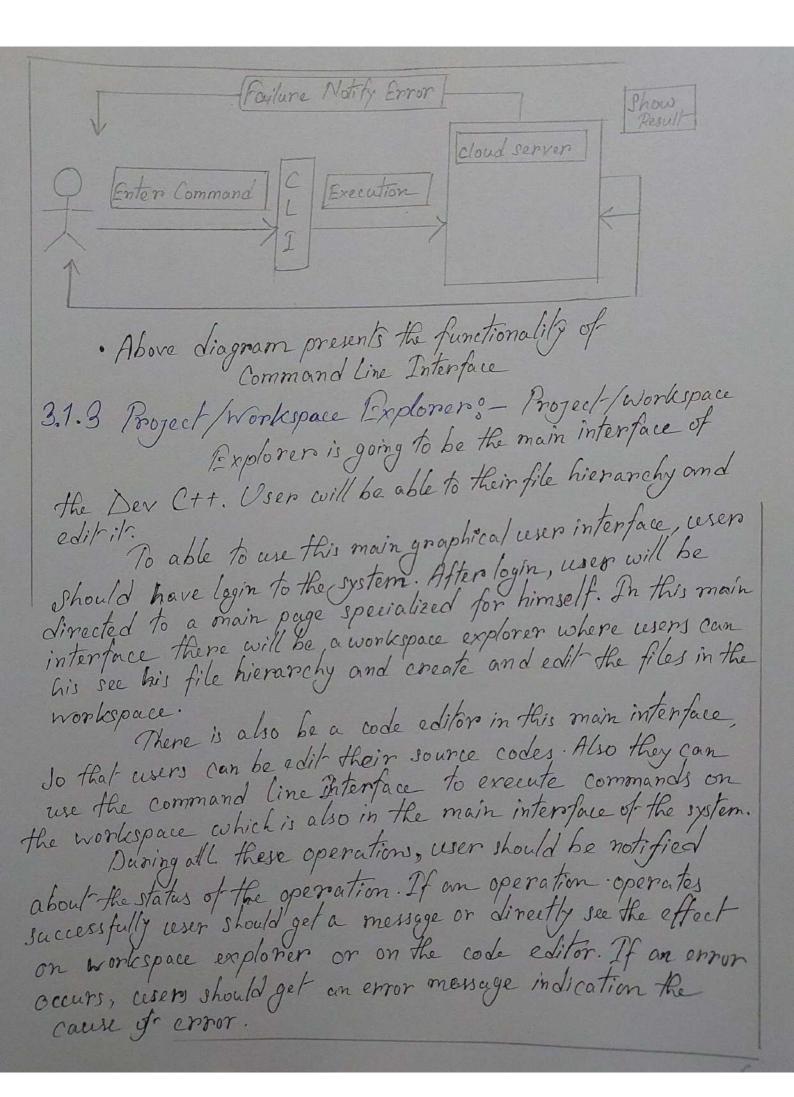
Usually they provide loss of extensive features to Levelopers to ease application developers life. This SRS is also aimed at specifying requirements of software to developed but it can also be applied to assist in the selection of in the house and commencial software products. The standard can be cesed to create software nequinements specifications directly on can be used as a model for defining a organization on project specific standard. It does not identify any specific method, nomenclature on tool for preparing an SRS. 1.3 Overview: - We are going to focus on describing the system in terms of product perspective, product functions, user characteristics, assumptions and dependencies on the following section of this Socument. Next, we will address specific requirements of the system, which will enclose external interface requirements, requirements of the system, performance requirements, and other requirements. 2. Overall Description: - This section gives background information about specific requirements of the Dev C++ in brief. Althrough we will not describe every requirement in detail, this section will describe the factors that affect the final product. 2.1 Product perspective :- This software product is even --tually intended for the software developers. Product will be deployed to web site and all users of the product will access by are of the website. Website will be main cesen interface where cesers can operate will the provided functionality. However, this web site will be only a part of a larger system. There will be about server where all the user data is kept and all the execution is done.

2.2 Broduct Renctions: - This product, Dev C+t, must have cese functionalities which have been explained above. Required Tunctionalities of the product can be summarized in five cate gories, user management requirements, code editions requirements, de bugger requirements, command line interface requirements. Over all description of the requirements can be found below. 2.2.1 User Management Requirement: The category of requirements is related to users author-tication mechanism and workspace management of users. Each user will have credentials to connect-their workspace on cloud and will be assigned to workspace. Users will perform all the functionality over this workspace using his credentials. 2.2.2 Code Editors Requirements: - One of the most important

functionality expected from an integrated development environment is a code editor which will ease the Leveloper's life: Code edilors will be the main, interface that developers deal with. It supports, variety of progra--mming language with highlighting, syntax checking, auto identation and language specific auto-complete. 2.2.3 Debuggers Requirements .- Debuggers is the main tool that Levelopers can test and Lebug their target program. Debugger of the product should allow setting and displaying break points on the code. It will also provide functionality of stopping/ continuing of the execution of debugger. Finally, it will provide an expression interface where user can enter an expression at each step. 2.2.4 Terminal Requirements: - As an important part of the software Development process, an integerated develop-

enivornment should provide a command line interface where such as configuring git synchronization. Main component of CLI will be the terminal. Terminal will allow ceser to mun UNIX command on his own workspace and also mun predifined programs such as onvn, svn, etc. Terminal will also provided auto-complete by list of available commands and browse in this command history. 2.2.5 Interface Requirements o- This group of requirements is related to external interaction of theworkspace with outer world for user to interact with the workspace, product will provide both command line interface and graphical interface. Command line interface will be UNIX like and graphical interface will allow tabled navigation of windows, hierarchical view of workspace etc. 2.3 User Characteristics; - Users of the Der C++ will mainly be software developers. Since it is neasonable to assume that an average developer has knowledge about function-nalities and usage of IDE, we assume that our users willalready be informed about basic functionality of the product. Also clear documentation and tutorials about the product feature will be provided. 3. Specific Requirements: - With this section and later, I will describe the requirements of the software in detail. Basically, we will categorized requirements in three which are namely external interface requirements, functional requirements and non functional requirements. 3.1. External Interface Requirements - In this sub section we will describe the external interface nequirements of the product in three categories which are

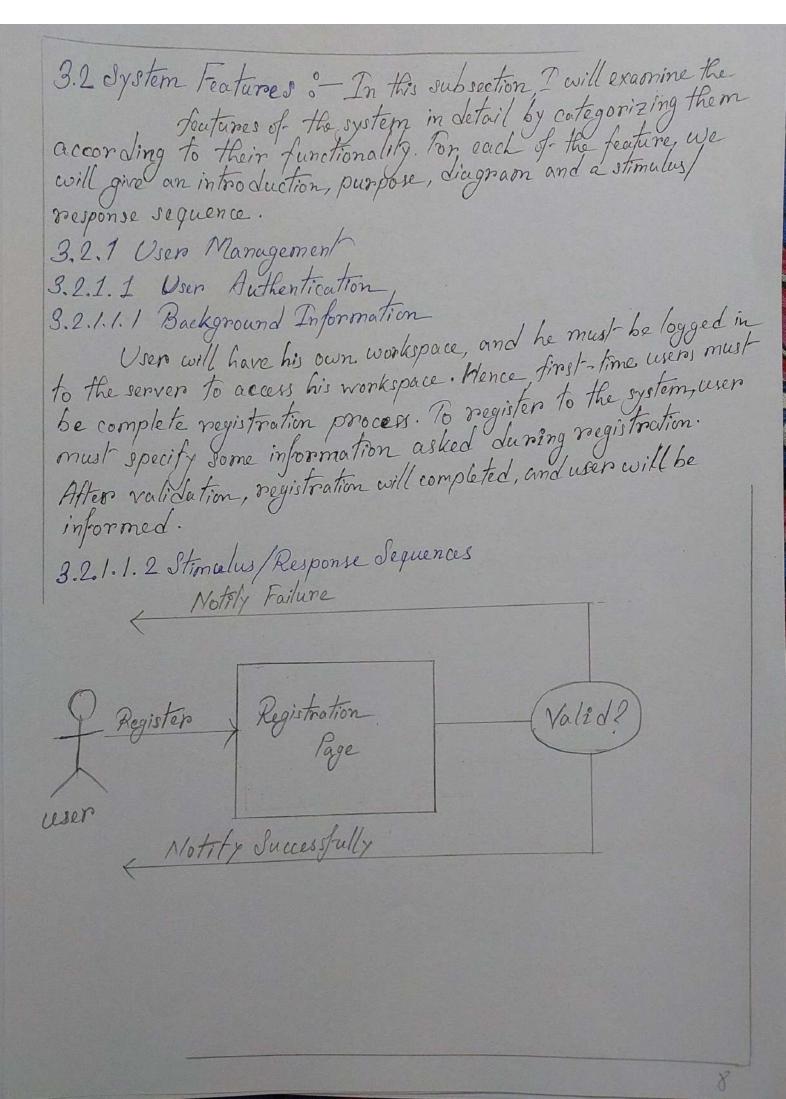
CLI support, workspace explorer and code editor and communication interfaces. The purpose of this section is to identify and document this interfaces and interaction of the software with external entities in detail. 3.1.1 External services Synchronization Interface -Product is going to provide an interface to publish the Content of the work space to external system. For the milal version of the product this interface works well with the github website. If user also a github account and wants to synchroni website of user also a github account and wants to synchroni zation his repository with the github, product should be able to provide his functionality. 3.1.2 Command line Support of To use the command line interface, user first should login to the system with his own credentials. After login user will be redirected to the main page. In the main page user can go to the below part of the page which will be command line where user can execute UNIX commands on the current directory. During any process, user should be able to recieve feedback about submission. If the command or. program runs successfully, then the user should be able to see the effects either on the CLI or the in the workspace explorer. If an error occurs because of the user limitations, user should be able to given a detailed notification about the cause of the error and solutions of possible.



DEV C++

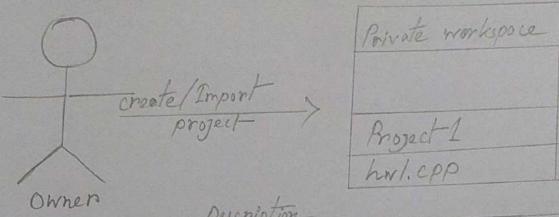
(File Project	[Helloworld.cpp [terminal]
Couses [1. 2. 1. 2. 1. 2. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	#include (iostream) using namespace std; int main() int test variable=0, test variable 2=3; cout<< "Hello World"; return test=1; }
	(9

Interface



Description	
Primary Actor	Usen
Goal in context	Purpose of this feature is to register user to the system
Trigger	User wants to register to the system
Normal Flow of Events i) User opens the registration page. B) User specifies his information. iii) System volidate the specified information. iii) User is registered to the system: 3.2.1.2. Workspace Management/Ownership?— 3.2.1.2.1 Background Information.—A workspace is a 3.2.1.2.1 Background Information.—A workspace is project legical collection of projects. User con manage his project import existing projects, or enecte and delete files import existing projects. After registration of users, a private workspace will be accessed will be available for him. Workspace will be accessed with the workspace owner with full access. Owner can change by workspace owner with full access. Owner can change wishing of his workspace. If workspace is set to be as public, any user can observe his projects.	

3.2.1.2.2 Stimulus / Response Sequences



Description User Workspace Owner Primary Actor Purpose of this feature is to create a new project Goal in Context or import existing one. User must be logged into the system Preconditions User wants to create a new project, or import existing project Trigger

Normal Plow of Events 1. User logins in to the system

2. User opens, his workspace.

3. User creates a project. 4. User creates a file into the new project.

Functional Requirements REQ1: The system shall provide a registration page. REQ 2: The system shall provide a login page.

REQ 3: The system shall support creating and importing projects. REQ 4: The system shall support creation files on folders. REQ5: The system shall support public workspace option. The system shall support-githab synchronization.