	Version:1.0		
Project Charter	Date: March 3, 2020		

Beginning Date	Februray 25, 2020		Project Man	ager:	Néstor Iván Martínez Ostoa		
	Sect	Section I - General Information					
Project applicant:	Те	Team Assembly					
Project sponsor:	No	Norberto Ortigoza Márquez					
Email account:	hip	hoo	x@bunsan.io				
	Se	ectio	n II – Project De	etails			
Project name:	Wr	Writing a C compiler in Elixir					
Project description:	pro coi <b>de</b>	In this project, Team Assembly will be writing a compiler for the C programming language using Elixir as its base language. The compiler compile source programs written in C (which are described in <b>Project deliverables</b> ), assemble those source programs and run its executable files.					
Project objective:	Le	arn h	now to build a co	mpiler and	d identify its main parts.		
Project scope:	Mo	More detailed information in the document named <b>Project Scope</b>					
Project deliveries:		1. Compiler written in Elixir that compiles source programs written in C that return the following expressions inside the main function:  1.1 Phase One: Integers 1.1.1 1, 2, 3, 4, etc.  1.2 Phase Two: Unary Operators 1.2.1 Negation (-) 1.2.2 Bitwise complement (~) 1.2.3 Logical negation (!=)  1.3 Phase Three: Binary Operators 1.3.1 Addition (+) 1.3.2 Subtraction (-) 1.3.3 Multiplication (*) 1.3.4 Division (/)  1.4 Phase Four: More Binary Operators 1.4.1 Logical AND (&&) 1.4.2 Logical OR (  ) 1.4.3 Equal to (==) 1.4.4 Not equal to (!=) 1.4.5 Less than (<) 1.4.6 Less than or equal to (<=) 1.4.7 Greater than (>) 1.4.8 Greater than or equal to (>=) 2. The compiler should contain at least the followin programs/modules: 2.1 Scanner 2.2 Parser 2.3 Code generator 3. Project Documentation: 3.1 Project Charter document. 3.2 Project Scope document. 3.3 Analysis and Technical Design document. 3.4 Installation guide document. 3.5 Slides documenting the building process.					

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	Project star	t date	Project estimated final date	Project Manager		
	March 3, 2	2020	March 17, 2020	Néstor Iván Martínez Ostoa		
Project approval requirements:	<ol> <li>For this phase, a program written in Elixir that compiles a source program written in C.</li> <li>1.1 The compiler should contain at least a Scanner, Parser and Code Generator.</li> <li>1.2 The source program should only return integers (<b>Project deliverables 1.1</b>).</li> <li>1.3 The program should assemble the source program.</li> <li>1.4 The user should be able to run the program in assembly language.</li> <li>2. Live demo of the first phase of the project.</li> </ol>					
Project risks:	<ol> <li>GitHub repository to work on.</li> <li>Team understanding of Elixir basics.</li> <li>Team understanding of a compiler and its basic components and processes.</li> <li>Complicated team agenda that may reduce working time on the project.</li> </ol>					
Key stakeholder list:	<ol> <li>Sponsor: Norberto Ortigoza Márquez</li> <li>Customer: Norberto Ortigoza Márquez</li> <li>Domain Expert: Norberto Ortigoza Márquez</li> <li>Project Manager: Néstor Iván Martínez Ostoa</li> <li>System Architect: Mario Horacio Garrido Czacki</li> <li>System Integrator: José Enrique Hernández Zamora</li> <li>System Tester: Alejandro Ramírez Bondi</li> </ol>					
	Section III -	Signatu	res			
Sponsor			Project N	<i>M</i> anager		
Name and Signature			Name and Signature			