	Version:1.0		
Project Charter	Date: March 3, 2020		

Beginning Date	Februray 25, 2020		Project Mar	nager:	Néstor Iván Martínez Ostoa		
	Sect	tion	l - General Info	rmation			
Project applicant:	Те	Team Assembly					
Project sponsor:	No	Norberto Ortigoza Márquez					
Email account:	hip	hoo	x@bunsan.io				
	Section II – Project Details						
Project name:	Wı	Writing a C compiler in Elixir					
Project description:	pro co de	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	Learn how to build a compiler and identify its main parts.					
Project scope:	Mo	More detailed information in the document named Project Scope					
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 following 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.					

Project Charter	Version:1.0 Date: March 3, 2020

	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>l</i> lanager		
Name and Signature			Name and	Signature		