

Priority	Description				
1	Mandatory, system unacceptable without it				
2	Important, Process alternatives will work				
3	Nice to have, system is acceptable without it				
Req ID	Solution Component	Type	Requirement	Weight	Comments
Authentication and Authorisation					
NFR01	CRVS Application	Non-Functional (Technical)	The system must authenticate users based in a unique username and password.	1	
NFR02	CRVS Application	Non-Functional (Technical)	Once authenticated the system must apply access control mechanism to ensure that the user's access to functions and data is controlled with user rights. The system must support roles based access controls whereby different roles will have different authorisations.	1	
NFR03	CRVS Application	Non-Functional (Technical)	The system must lock a user out of the system if they attempt to access the system with the incorrect credentials more than 3 times.	1	
NFR04	CRVS Application	Non-Functional (Technical)	The system must have a configurable password policy to enforce minimum password length and strength as well as password expiration rules.	1	
Usability					
NFR05	CRVS Application	Non-Functional (Technical)	The system must provide a Graphical User Interface (GUI) for data entry and associated activities. The interface must be user friendly, clear, predictable, consistent and efficient.	1	
NFR06	CRVS Application	Non-Functional (Technical)	The system must provide mechanisms to enable data entry efficiency and keystroke reduction wherever practicable e.g. an auto-populate functionality can be used to populate certain text fields based on input selection from a drop down menu. The system must provide the ability to dynamically suppress or disable text fields based on the data entered in the previous fields.	1	
NFR07	CRVS Application	Non-Functional (Technical)	The system must support the ability to calculate values on behalf of the user, eliminating the need for them to perform calculations prior to data entry	1	
NFR26	CRVS Application	Non-Functional (Technical)	Allow users to find features within 3 clicks or less	1	
Encryption					

NFR08	CRVS Application	Non-Functional (Technical)	The system must provide an encryption mechanism for securing the entire database as rest as well as securing the data that is transmitted between two end points is not compromised. Encryptions must be designed in such a way as to not compromise system performance.	1	
Audit					
NFR09	CRVS Application	Non-Functional (Technical)	The system must provide secure and automated audit capture for recording activities in the system as well as changes made to the data records. Audit trails and log files cannot be altered or deleted. Audit must include, data and time, nature of event e.g. access to records, additions, updates, deletions etc. identity of the user and location.	1	
NFR10	CRVS Application	Non-Functional (Technical)	The system must store an audit trail of successful and failed logon attempts.	1	
NFR11	CRVS Application	Functional	The system must have the ability to generate, view, print, and/or save audit reports.	1	
Interoperability					
NFR12	CRVS Application	Non-Functional (Technical)	The system must have the ability to securely interconnect with the central vital events registry, NIA, master person index etc. via a secure web-based interface or mobile application. The system must ensure that incoming data input is validated, evaluated for expected size, format and type before acceptance.	1	
NFR13	CRVS Application	Non-Functional (Technical)	The system must use open standards to promote interoperability	1	
NFR14	CRVS Application	Non-Functional (Technical)	The system must support standard messaging protocols.	1	
NFR15	CRVS Application	Non-Functional (Technical)	The system must provide real-time response to mobile transactions submitted to the central database	1	
NFR16	CRVS Application	Non-Functional (Technical)	The system must be able to interface with open source or existing third party reporting tools	1	
NFR19	CRVS Application	Non-Functional (Technical)	The system must allow for the import of quality-checked data from the existing databases	1	
Data Validation					
NFR20	CRVS Application	Non-Functional (Technical)	The proposed system must provide the ability to validate data inputs. Data validation functions are required to ensure data entry completion and to prevent the entry of invalid/incorrect information into the database.	1	
Scalable					

NFR21	CRVS Application	Non-Functional (Technical)	The system must be scalable (including data transmission, processing and storage) for all users over the expected lifetime of the system	1	
NFR22	CRVS Application	Non-Functional (Technical)	The system's technical design (hardware, databases, etc.) must be able to scale to support projected transaction volumes over time	1	
Availability					
NFR23	CRVS Application	Non-Functional (Technical)	The system must be available to end users between 7am and 6pm on workdays	1	
NFR24	CRVS Application	Non-Functional (Technical)	The system must be able to perform in an environment subject to power loss and must accommodate loss of connectivity to hosted application (e.g. when a user is in the process of submitting a form)	1	
NFR25	CRVS Application	Non-Functional (Technical)	The system must allow users to work offline and then synchronise data when an internet connection is available	1	
Configurable					
NFR27	CRVS Application	Non-Functional (Technical)	The system must allow for flexible configurations based on the user environment	1	
NFR28	CRVS Application	Non-Functional (Technical)	<i>The system must support English .Specifically, all display technologies and software must support the ISO 35.040 character set.</i>	1	
Backups					
NFR29	CRVS Application	Non-Functional (Technical)	The system must provide mechanisms to schedule or manually initiate backups or the system. The system administrator should be able to successfully restore the system from the backups.	1	
Support					
NFR29	CRVS Application	Non-Functional (Technical)	The system must support the repair or upgrade of a component in a running system or with minimised downtime	1	
NFR30	CRVS Application	Non-Functional (Technical)	The system must be able to provide continuity and ease of access to data throughout changes in infrastructure at the district civil registration office level	1	
Printing					
NFR31	CRVS Application	Non-Functional (Technical)	The system must provide the ability to generate, print, and save different types of reports including predefined routine reports as well as ad-hoc reports. The reporting capability must include the generation of reports using multiple categories as well as provide automatic calculation features.	1	
Hardware					

NFR31	CRVS Application	Non-Functional (Technical)	The system must run on active (powered) equipment operating on specified voltage. All active equipment must include power plugs standard for the country/area.	1	
NFR32	CRVS Application	Non-Functional (Technical)	The system hardware components must have UPS that will enable equipment to be able to be powered down over a 15 minute timeframe after loss of power	1	
NFR33	CRVS Application	Non-Functional (Technical)	<i>Unless otherwise specified, all equipment must operate in environments of 10-30 degrees centigrade, 20-80 percent relative humidity.</i>	1	
NFR34	CRVS Application	Functional	The system must provide the ability to produce, view and print the birth, death, marriage and divorce certificates by automatically extracting relevant data from the database. The certificate should have and electronic stamp.	1	
NFR35	CRVS Application	Functional	The system must provide the ability to save the certificates in a portable electronic file format.		
NFR36	CRVS Application	Functional	The system must keep an audit of all certificates produced.	1	
NFR37	CRVS Application	Functional	The system must allow the user to reprint the certificate if required.	1	
NFR38	CRVS Application	Functional	The proposed system must provide the functionality for searching and retrieving any potential duplicate record before enabling the creation of a new life event record in the database.	1	
Data Migration					
NFR39	CRVS Application	Non-Functional (Technical)	The system must provide data migration functionality as well as providing a means of back capturing paper-based records (through scanning and manual data entry). The system must have the ability to enter existing registration numbers to historical birth, death, marriage and divorce records that are migrated from existing paper-based and electronic records.	1	