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**Introduction:**

This document contains a description of all the requirements of the Alarm Clock project, and how they will be covered by the software plan.

**Description:**

There are tables which gives a requirement an id, a brief description and which requirement it covers from the CRS document of the project.

**Version:** This is version 2.1

**Modified by:** Merna Hany

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**Modifications:** Modifying the SRS requirement table

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| **ID** | SRS\_003 |
| **Description** | When the up button is pressed the value of the clock displayed on the LCD will be incremented and the re-displayed on the LCD |
| **Coverage** | CRS\_003 |

**SRS Requirement Table:**

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| **ID** | SRS\_001 |
| **Description** | The time will be displayed on the first row of the LCD with the default value 12:00:00  The date will be displayed on the second row of the LCD 1/1/2019 |
| **Coverage** | CRS\_001  CRS\_002 |

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| **ID** | SRS\_002 |
| **Description** | When the button for setting the alarm is pressed, the default value for the alarm 00:00 will be displayed |
| **Coverage** | CRS\_002 |

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| **ID** | SRS\_003 |
| **Description** | When the up button is pressed the value of the clock displayed on the LCD will be incremented and the re-displayed on the LCD |
| **Coverage** | CRS\_003 |

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| **ID** | SRS\_004 |
| **Description** | When the down button is pressed, the value of the clock displayed on the LCD will be decremented and then re-displayed on the LCD |
| **Coverage** | CRS\_003 |

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| **ID** | SRS\_005 |
| **Description** | When the right button is pressed, the cursor of the LCD will move from left to right in the three setting modes (date, time, alarm) |
| **Coverage** | CRS\_003 |

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| **ID** | SRS\_006 |
| **Description** | When the left button is pressed, the cursor of the LCD will move from right to left in the three setting modes (date, time, alarm) |
| **Coverage** | CRS\_003 |

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| **ID** | SRS\_007 |
| **Description** | When the button for setting the time and date is pressed once, the user will be allowed to update the time |
| **Coverage** | CRS\_004 |

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| **ID** | SRS\_008 |
| **Description** | When the button for setting the time and date is pressed twice, the user will be allowed to update the date |
| **Coverage** | CRS\_004 |

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| **ID** | SRS\_009 |
| **Description** | When the button for setting the alarm is pressed, the user will be allowed to update the alarm |
| **Coverage** | CRS\_005 |

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| **ID** | SRS\_010 |
| **Description** | When the timer for the alarm clock reaches zero the buzzer will automatically go on. The buzzer will go off if the button responsible for setting it off is pressed. |
| **Coverage** | CRS\_006  CRS\_007 |

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| **ID** | SRS\_011 |
| **Description** | Timeout for 10 Seconds if nothing is done while the alarm is being set, navigate to the previous state and save the state that’s already written |
| **Coverage** | CRS\_009 |