**Online Diary**

**Requirements Specification**

**1      Introduction**

**1.1  Aim**

To develop a system that acts as an online version of a diary, allowing users to create accounts, appointments with descriptions, start and end times and allowing users to appoint people who are involved. Users must also be able to view appointments related to a user or a date and should also be able to cancel appointments as well. The system should adhere to the requirements in the link below.

(<http://briggs.myweb.port.ac.uk/WEBP/cases/diary/reqs.htm>).

**1.2 Timetable**

Requirements specification 12th February 2019

UI design 26th February 2019

Alpha version 26th March 2019

Final version 6th May 2019

**2      Data requirements**

The requirements for the system are split into requirements related to data and general requirements which are organised by must have, should have and could have priorities. Must have requirements must be implemented.

**2.1 Externally sourced data**

**Must have**

1. The system must hold the following information for user accounts:
2. Username
3. Password
4. First name
5. Last name
6. Address
7. Postcode
8. Phone number
9. Email address
10. User’s must be able to make a user account by giving the information above.
11. When user’s sign up or sign in, data must be sent securely.
12. Usernames must be at least 6 alphanumeric characters, unique and every user account must have one.
13. Phone numbers can be in either of the following formats: +44 (23) 92846438 or (023) 92846438
14. Email addresses must be in a valid format and there must be an email for every user account.
15. Only valid records are added to database, any invalid data entry results in notifying the user where they made a mistake and allows them to correct it. This must occur on entry and amendment.
16. Information related to a user account can only be altered by someone who is logged into that account or who gives the correct username and password.
17. Only logged in users can browse and search for user records.
18. The system must provide an online, shared contact list which will display each user’s first name, last name, email address and phone number.

**2.2 Internally sourced data**

**Must have**

1. The system must hold the following information for a diary appointment:
2. Date and start time
3. Date and end time
4. Textual name and description
5. Owner/creator of the appointment (current user’s first and last name)
6. Those who are involved with the appointment. Note: Owner may not be in this set.
7. The system must provide an online diary, unique to each user, which is created from diary appointments.
8. Appointments cannot clash with each other and such appointments mustn’t be allowed. Two appointments clash if they occur in the same timeframe while 1 or more of the involved persons is involved with both appointments.
9. Users must be able to get reports of:
10. All the appointments linked to a user (defaults to current user, but can be changed).
11. All the appointments for a specific date.
12. Owners of appointments must be allowed to cancel them.
13. When an appointment is cancelled, users linked to it will go back to being free for that time period, essentially undoing the creation of the appointment entirely.

**2.3 General requirements**

**Should have**

1. When a user is added to an appointment in anyway, that user should be notified.
2. The system must have a simple to use, intuitive user interface.
3. Unless a user has the rights to do so, data should only be modified by a system administrator.
4. The user interface should respond to screen size, making it usable on most devices and browsers.
5. Reports should display all the information about the appointments, such as date/time, involved users, when the appointment was created, who it was created by.
6. By default any reports of appointments should start on the current day and show appointments in chronological order going into the future.

**Could have**

1. Error report for when a clash occurs between appointments which allows the creator of the appointment to alter the set of people involved.
2. A grid calendar view of appointments.
3. Reports could have an option to display appointments in the past.
4. Users could have the option to notify them that an appointment is going to happen soon.

**3 Document History**

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| --- | --- | --- | --- |
| Version | Date | Changer | Change |
| v1.1 | 10th February 2019 | Matthew Hawkins | Finished first draft |
| v1.0 | 5th February 2019 | Matthew Hawkins | First draft |