Application Design Document

APPLICATION REQUIREMENTS

This is an application that will provide the ability for an individual child to enter deadline details along with a parent user to enter the details for all the family. However, only have appointments and deadlines, do not add further items or categories* The following user stories provide the basic requirements:

As a parent I wish to add details of dentist appointments for all in my family

As a parent I wish to see details of upcoming appointments for all in my family

As a parent I wish to change the details of any appointments for all in my family

As a parent I wish to add notes to an appointment that has taken place

As a parent I wish to cancel appointments for any in my family

As a child I wish to enter details of deadlines I need to meet

As a child I wish to see what deadlines I have coming up

As a child I wish to amend my deadline to show that I have met it

As a child I wish to amend my deadline to move it

As a child I wish to delete my deadline

*This is not a full system, this is a minimum viable product (MVP) whereby only the user stories provided above are implemented. The following aspects are outside of the scope of the system: Other users. No other user stories for other users are required. Logging in is outside the scope of the system. You are not to spend time implementing a bespoke log in system.

User Story Boards

Parent

Parent

Child

Parent

Add Appointment | View / Edit Upcoming Appointment(s)

Edit / View Past Appointment(s) | Change User

Add Appointment

Family Member   (Select)
Appointment Date   (Select)
Appointment Type   (Select)
Appointment Notes : _____

Cancel   Submit

Upcoming Event(s)

Family Member	Appointment Date	Appointment Type	Appointment Notes	
Father	20/08/2021	Dentist	Filling	Edit
Son	19/12/2020	Dentist	Routine Checkup	Edit
Daughter	19/12/2020	Dentist	Routine Checkup	Edit
Father	17/10/2020	Doctor	Blood Test	Edit

Today's Date : 20/08/2020   Return to Menu

Past Event(s)

Family Member	Appointment Date	Appointment Type	Appointment Notes	
Daughter	15/08/2020	Orthodontist	Braces checkup	Edit
Son	28/07/2020	Doctor	Broken arm checkup	Edit
Son	11/03/2020	Doctor	Broken arm checkup	Edit
Mother	03/06/2019	Doctor	Operation	Edit

Today's Date : 20/08/2020   Return to Menu

The first stage of the user journey is that the user is give the option to pick between the child and parent users.
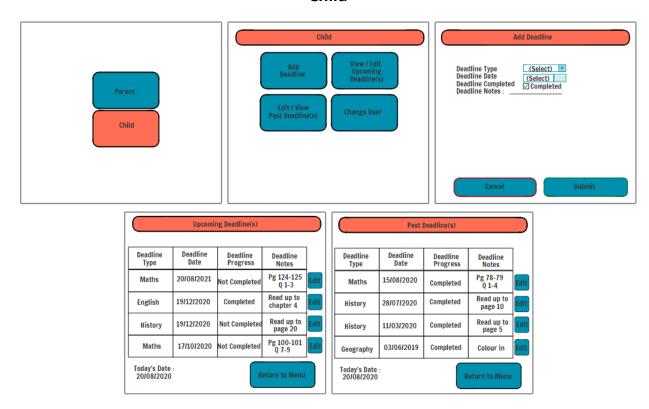
On selection of the parent user the parent user panel is shown, from here the parent choses depending on what they wish to do.

On selection of the add appointment button the user is take to the add appointment page. The user is then to fill out the new appointment form which uses drop down menus to select Family member and Appointment type. Appointment date is selected use a date time selector. Appointment notes is a text field input for the user to add a few notes to do with the appointment.

On selection of the Edit/View Upcoming Appointments button the user is shown all upcoming appointments sorted by appointment date. They can use a scroller to scroll up and down through the different appointments. They can press an edit button that will allow them to edit an appointments data, this will update the table when the user presses the return to menu button.

On selection of the Edit/View Past Appointments button the user is shown all past appointments sorted by appointment date. They can use a scroller to scroll up and down through the different appointments. They can press an edit button that will allow them to edit an appointments notes, this will update the table when the user presses the return to menu button.

Child

Child

| Add Deadline | View / Edit Upcoming Deadline(s) |
| Edit / View Past Deadline(s) | Change User |

Parent

Child

Add Deadline

Deadline Type — (Select)
Deadline Date — (Select)
Deadline Completed — ☑ Completed
Deadline Notes : ____

Cancel   Submit

Upcoming Deadline(s)

Deadline Type	Deadline Date	Deadline Progress	Deadline Notes	
Maths	20/08/2021	Not Completed	Pg 124-125 Q 1-3	Edit
English	19/12/2020	Completed	Read up to chapter 4	Edit
History	19/12/2020	Not Completed	Read up to page 20	Edit
Maths	17/10/2020	Not Completed	Pg 100-101 Q 7-9	Edit

Today's Date : 20/08/2020   Return to Menu

Past Deadline(s)

Deadline Type	Deadline Date	Deadline Progress	Deadline Notes	
Maths	15/08/2020	Completed	Pg 78-79 Q 1-4	Edit
History	28/07/2020	Completed	Read up to page 10	Edit
History	11/03/2020	Completed	Read up to page 5	Edit
Geography	03/06/2019	Completed	Colour in	Edit

Today's Date : 20/08/2020   Return to Menu

The first stage of the user journey is that the user is give the option to pick between the child and parent users.

On selection of the child button the child user panel is shown. From here the child can chose how they wish to interact with their deadline data.

On selection of the Add deadline button the Add Deadline page is shown that allows the child to input a new deadline using widgets to easily facilitate this. Upon submission an alert is sent to the user to alert them of the success or failure of adding the new deadline. They are then returned to the child user panel.

On selection of Edit/View Upcoming Deadline(s) the user is present with all their upcoming deadlines. The blue button next to the specific deadline can be pressed to allow the user to edit the deadline and to select if they have completed it. This will update when the user returns to the menu.

On selection of Edit/View Past Deadline(s) the user is present with all their past deadlines. The blue button next to the specific deadline can be pressed to allow the user to edit the deadline and to select if they have completed it. This will update when the user returns to the menu.

The user can select the change user button the return to the starting screen.

ERD

AppointmentTypes

Primary Key	AppointmentTypeId
	AppointmentType

Appointments

Primary Key	AppointmentId
Foreign Key	AppointmentTypeId
Foreign key	FamilyMemberId
	AppointmentDate
	AppointmentNotes

FamilyMembers

Primary Key	FamilyMemberId
	FamilyMember

DeadlineTypes

Primary Key	DeadlineTypeId
	DeadlineType

Deadlines

Primary Key	DeadlineId
Foreign Key	DeadlineTypeId
Foreign key	SubjectId
	DeadlineDate
	DeadlineNotes

Subjects

Primary Key	SubjectId
	Subject

UML

AppointmentTypes
Class

▲ Properties
- 🔧 Appointments
- 🔧 AppointmentTypeName
- 🔧 AppointmentTypesId

▲ Methods
- ⚙ AppointmentTypes

Appointments
Class

▲ Properties
- 🔧 AppointmentDate
- 🔧 AppointmentId
- 🔧 AppointmentNotes
- 🔧 AppointmentType
- 🔧 AppointmentTypeId
- 🔧 FamilyMember
- 🔧 FamilyMemberId

FamilyMembers
Class

▲ Properties
- 🔧 Appointments
- 🔧 FamilyMemberId
- 🔧 FamilyMemberName

▲ Methods
- ⚙ FamilyMembers

ISAD251_RHarrisContext
Class
⊕ DbContext

▲ Properties
- 🔧 Appointments
- 🔧 AppointmentTypes
- 🔧 Deadlines
- 🔧 DeadlineTypes
- 🔧 FamilyMembers
- 🔧 Subjects

▲ Methods
- ⚙ ISAD251_RHarrisContext (+ 1 overload)
- ⚙ OnConfiguring
- ⚙ OnModelCreating
- ⚙ OnModelCreatingPartial

DeadlineTypes
Class

▲ Properties
- 🔧 Deadlines
- 🔧 DeadlineTypeId
- 🔧 DeadlineTypeName

▲ Methods
- ⚙ DeadlineTypes

Deadlines
Class

▲ Properties
- 🔧 DeadlineDate
- 🔧 DeadlineId
- 🔧 DeadlineNotes
- 🔧 DeadlineType
- 🔧 DeadlineTypeId
- 🔧 Subject
- 🔧 SubjectId

Subjects
Class

▲ Properties
- 🔧 Deadlines
- 🔧 SubjectId
- 🔧 SubjectName

▲ Methods
- ⚙ Subjects

AppointmentsView

Execute Event

Appointments
Class

▲ Properties
- 🔧 AppointmentDate
- 🔧 AppointmentId
- 🔧 AppointmentNotes
- 🔧 AppointmentType
- 🔧 AppointmentTypeId
- 🔧 FamilyMember
- 🔧 FamilyMemberId

Upadate Model
1

AppointmentsController
Class
⊕ Controller

▲ Fields
- 🔩 _context

▲ Methods
- ⚙ AppointmentsController
- ⚙ AppointmentsExsists
- ⚙ Create (+ 1 overload)
- ⚙ Delete
- ⚙ DeleteConfirmed
- ⚙ Details
- ⚙ Edit (+ 1 overload)
- ⚙ FutureAppointments
- ⚙ Index
- ⚙ PastAppointments

Deadlines
Class

▲ Properties
- 🔧 DeadlineDate
- 🔧 DeadlineId
- 🔧 DeadlineNotes
- 🔧 DeadlineType
- 🔧 DeadlineTypeId
- 🔧 Subject
- 🔧 SubjectId

Upadate Model
1

DeadlinesController
Class
⊕ Controller

▲ Fields
- 🔩 _context

▲ Methods
- ⚙ Create (+ 1 overload)
- ⚙ DeadlinesController
- ⚙ DeadlinesExists
- ⚙ Delete
- ⚙ DeleteConfirmed
- ⚙ Details
- ⚙ Edit (+ 1 overload)
- ⚙ FutureDeadlines
- ⚙ Index
- ⚙ PastDeadlines

DeadlinesView

Execute Event

AppointmentController

- Context

+AppointmentController
+AppointmentExsists
+Create
+Delete
+DeleteConfirmed
+Details
+Edit
+FutureAppointments
+Index
+PastAppointments

Uses Model

Appointments

+AppointmentDate
+AppointmentId
+AppointmentNotes
+AppointmentType
+AppointmentTypeID
+FamilyMember
+FamilyMemberID

AppointmentsViews

Execute Event

DeadlineController

- Context

+DeadlineController
+DeadlineExsists
+Create
+Delete
+DeleteConfirmed
+Details
+Edit
+FutureDeadlines
+Index
+PastDeadlines

Uses Model

Deadlines

+DeadlineDate
+DeadlineId
+DeadlineNotes
+DeadlineType
+Subject
+SubjectID

DeadlineViews

Execute Event