Service Layer Design for IOB App

How the service layer will be implemented is by using Angular.js framework using typescript through Cloud9 (using MongoDB as well) on AWS. The methods for Create, Read, Update, and Delete will be very similar per page, but it will depend on the page the user is on for what method the service layer will use.

First, I will walk through a few methods that will be used in the service layer, and then walk through some examples using personnas and how they will be interacting with the service layer.

#deleting either bolus taken, carb amount entered, how many units now taking.

```
remove(item, index) {
    console.log("Removing Item -- ", item, index);
    const toast = this.toastCtrl.create({
      message: 'Removing Item --' + index + "...",
      duration: 3000});
      toast.present();
      this.items.splice(index, 1);
  }
```

#adding current bolus amt before adjustments

```
  addCurrentBolus() {
    console.log("Adding Current Bolus");
    this.showAddItemPrompt();
  }
```

#adding the total amt of carbs being eaten if any

```
addCarbs() {
    console.log("Adding Carbs");
    this.showAddItemPrompt();
  }
```

to display updated information entered

```
{
        text: 'Save',
        handler: item => {
          console.log('Saved clicked', item);
          this.items.push(item);}}]}); prompt.present();}}
```

Personna examples with the service layer

Say Nasar wants to click a button and have it ask how many carbs he's having. It would use the amount pushed to the console, and then display it and allow him to input how many carbs he is having. With his previous bolus loaded and the amount of carbs being eaten entered then would be added to the console and display the newly suggested bolus amount.