

Assignment

Single Online Reminder

Mobile Application

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Introduction

You are required to write an Ionic mobile application, that allows a user to enter a single Reminder on his/her mobile device consisting of the following information:

- Title
- Description
- Priority
 - High
 - Medium
 - Low
- Complete
 - True
 - False

This data should not be stored on the user's mobile device but instead should be stored on the [JSON Blob](#) website.

The application should allow the user to store only one Reminder at a time. So if he/she creates one reminder, this reminder must be deleted before a new one can be stored. However, any field of the Reminder can be updated.

If a Reminder has been created and the user exits the application and restarts it, then the reminder should be displayed.

Marks

This assignment is worth 50% of the marks for the module.

Creation of the Ionic App

The application should be created as follows:

- `ionic start GXXXXXXX blank`

Where GXXXXXXX is your student number.

Submission of the Ionic App

The zipped Ionic application (including an apk file with the filename as described above) should be uploaded to the *Project* section of Moodle no later than 9:00am on **Sunday December 18th 2016.**

App Structure

The application should consist of an index.html file where the body consists only of the following:

```
<body ng-app="myNews">
  <ion-nav-view></ion-nav-view>
</body>
```

There should be one template file which displays the Reminder if one exists, or if not displays an option to create a Reminder.

Technical Details

There should be one State representing the Reminder View.

Sending data to and receiving data the <https://jsonblob.com> website should be performed in a Service.

The JSON Blob [API](#) has four main endpoints:

- [POST](#) – This should be used to create the Reminder
- [GET](#) – This should be used to get an existing Reminder
- [PUT](#) – This should be used to update an existing Reminder
- [DELETE](#) – This should be used to delete an existing Reminder

A final requirement is that when a Reminder has been successfully created on the jsonblob.com website, the console should show the Blob ID of the Reminder as shown:

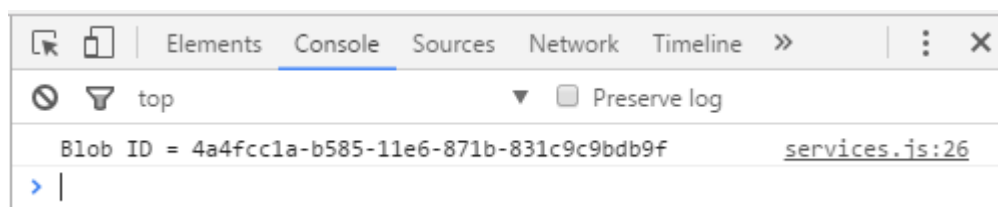
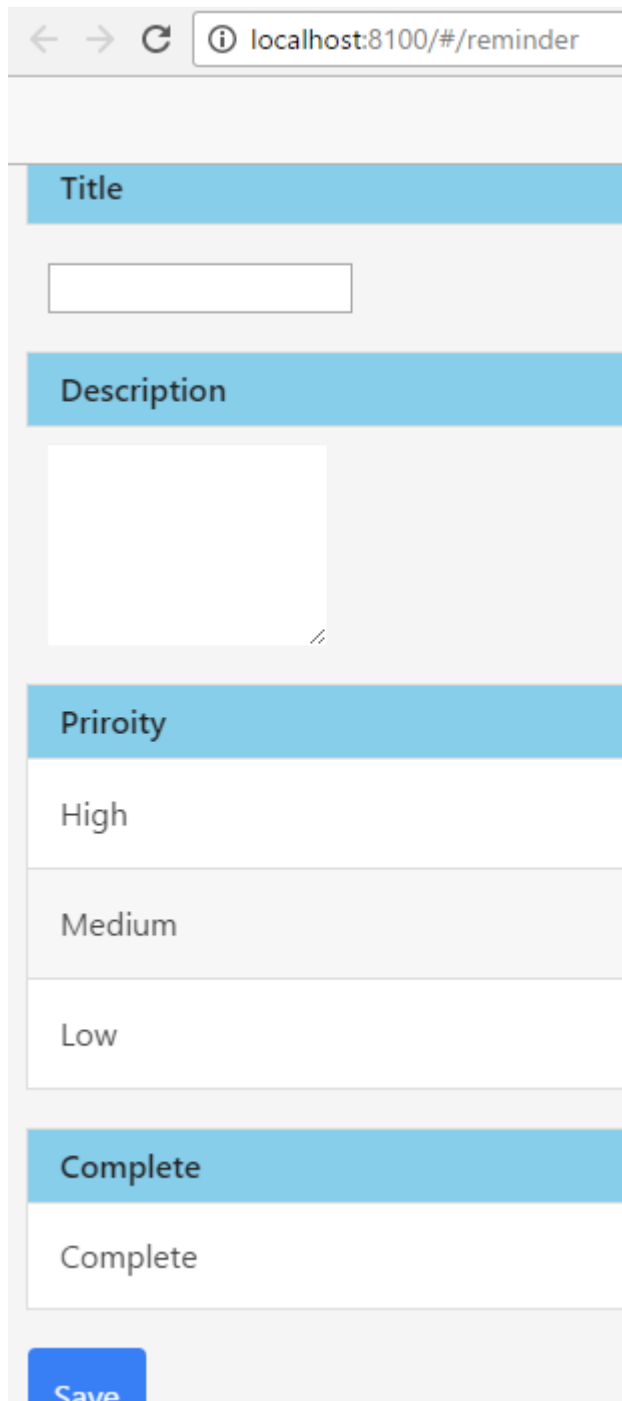


Figure 1 Console showing JSON Blob ID

NOTE: Nothing else (no debug messages etc.) should be printed on the console.

Application description and screenshots

The application should display the following fields/data on startup if there is no existing Reminder:



The screenshot shows a web browser window with the address bar displaying 'localhost:8100/#/reminder'. The form is styled with light blue headers for each section. It includes a 'Title' section with a text input field, a 'Description' section with a larger text area, a 'Priroity' section with three radio button options ('High', 'Medium', 'Low'), a 'Complete' section with a text input field, and a 'Save' button at the bottom left.

Title
<input type="text"/>

Description
<input type="text"/>

Priroity
<input type="radio"/> High
<input type="radio"/> Medium
<input type="radio"/> Low

Complete
<input type="text"/>

Figure 2 Application with no existing Reminder

The user then enters details of a Reminder he/she wishes to store. If the data is stored successfully on jsonblob.com, the *Save* button is no longer shown, but instead *Update* and *Delete* buttons are displayed.

The title of the page is automatically set to the title of the Reminder.

The screenshot shows a web form with the following sections:

- Title**: A text input field containing "Do Shopping" and a "Do Shopping" button.
- Description**: A text input field containing "Milk", "Bread", and "Cheese".
- Priority**: Three radio buttons labeled "High", "Medium", and "Low".
- Complete**: A text input field containing "Complete".
- Buttons**: "Update" and "Delete" buttons at the bottom.

Figure 3 Creating a New Reminder

As described previously, when a Reminder is successfully created the JSON blob ID should be displayed in the console:

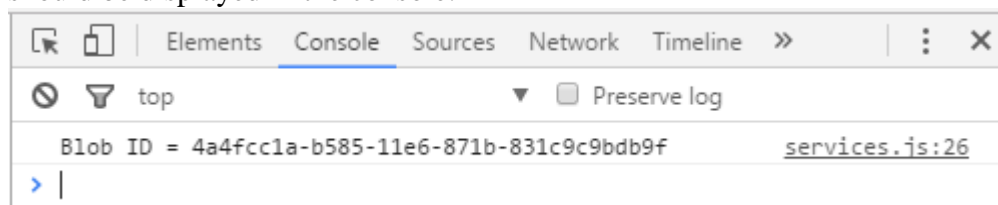


Figure 4 Console showing JSON Blob ID

If the application is closed and re-opened and a Reminder has been previously created but not deleted, this Reminder should be shown.

When a Reminder is deleted, the *Update* and *Delete* buttons are no longer shown, but instead *Save* button is displayed.

The Reminder should no longer be accessible on the jsonblob.com website.

Application in action

Download *Demonstration of Project 2.webm* from the *Project* section of Moodle and open it in a web browser to see a working version of how the finished assignment should look.