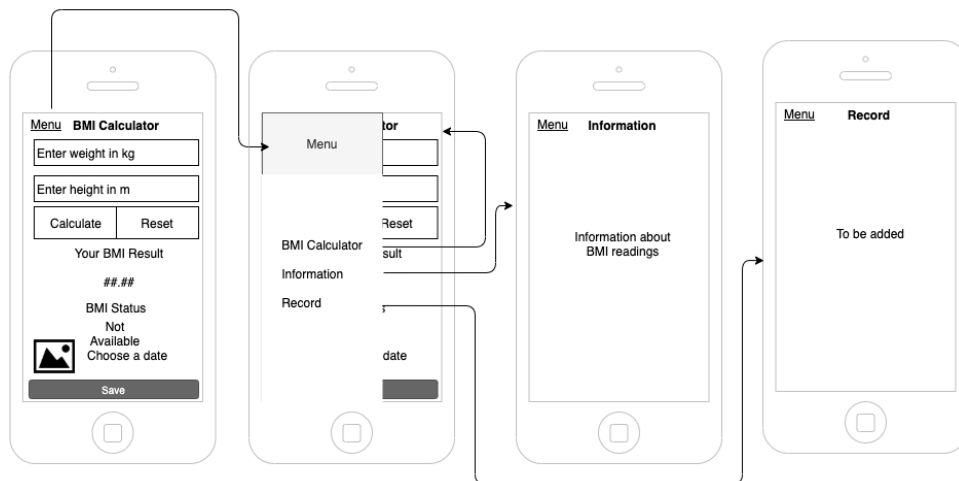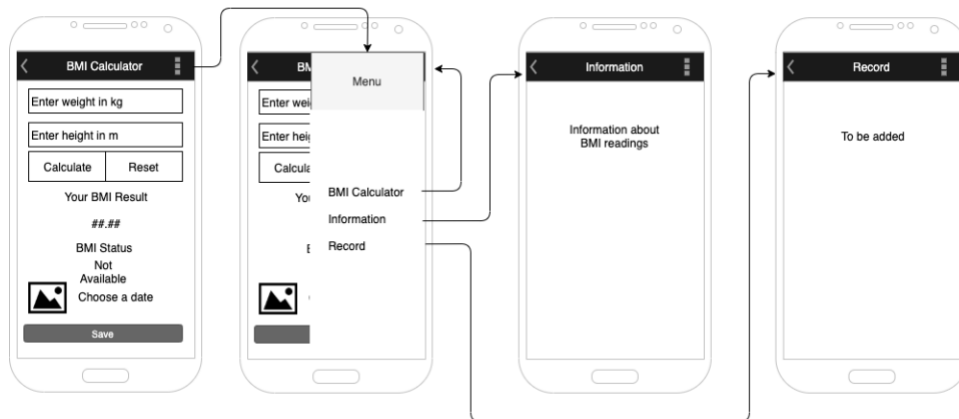| Student ID:SW0107187	Student Name: AKMAL ARIF BIN ARIFIN

Instruction: Answer all questions. Write your answer in the table located at the final page of this document.

You are going to learn to develop a cross platform application, BMI Calculator. This application will receive two input from the user. Based on these inputs, it will calculate the BMI value. Then the application will identify which group that the BMI result belongs to. The application should be able to store the calculated result.

iOS

Android

Activity 1 – Flyout Page (Formerly known as Master Detail Page)
You need to screen capture each of the following highlighted activities.
1. Right click on Xamarin.Forms project
2. Add new file

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3. Choose Forms. Choose Forms Flyout Page XAML. Set the name as MasterDetailPageBmi

4. You will see there are 4 newly added items on the Solution Pad

5. Expand App.xaml

6. Open App.xaml.cs

7. Comment the following code using //

```
//MainPage = new NavigationPage(new MainPage());
```

8. We want to load the MasterDetailPage right after the splash screen. Add the following code to the next line.

```
MainPage = new MasterDetailPageBmi();
```

9. Expand MasterDetailPageBmi.xaml

10. Open MasterDetailPageBmi.xaml.cs

11. We want to add the list into the Master Page and we want to navigate the Main Page to be loaded. Add the following highlighted code into the source code

```
public MasterDetailPageBmi()
        {
            InitializeComponent();
            MasterPage.ListView.ItemSelected += ListView_ItemSelected;
            Detail = new NavigationPage(new MainPage());
        }
```

12. Run the application on Android/iOS. Try to click the hamburger icon. Screen capture the result on Android/iOS.

Activity 2 – Customize the Master Detail Page

1. Change the AppName to BMI Calculator. Open MasterDetailPageBmiFlyout.xaml.

2. Change the attribute Title of ContentPage from Flyout to Menu.

3. Find ListView.Header. Change the Label text from AppName to BMI Calculator.

```
<Label
            Grid.Column="1"
            Grid.Row="2"
            Text="BMI Calculator"
            Style="{DynamicResource SubtitleStyle}"/>
```

4. Change the Background color to Grey, #B8B8B8 or Gray

```
<Grid BackgroundColor="#B8B8B8">
        <Grid.ColumnDefinitions>
          <ColumnDefinition Width="10"/>
          <ColumnDefinition Width="*"/>
          <ColumnDefinition Width="10"/>
        </Grid.ColumnDefinitions>
```

5. Open MasterDetailPageBmiFlyout.xaml.cs. Change the label Page 1 into BMI Calculator, Page 2 into Information, and Page 3 into Record. Remove page 4 and 5.

6. Run the application on Android/iOS. Try to click the hamburger icon. Screen capture the result on Android/iOS.

Activity 3 – Link the MenuList to a Page

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1. From the MenuItem list, we want to navigate to another page. Open MasterDetailPageBmiMaster.xaml.cs. Add TargetType to the MenuItem list.

```
public MasterDetailPageBmiMasterViewModel()
    {
        MenuItems = new ObservableCollection<MasterDetailPageBmiMenuItem>(new[]
        {
            new MasterDetailPageBmiMenuItem { Id = 0, Title = "BMI Calculator",
TargetType=typeof(MainPage) },
            new MasterDetailPageBmiMenuItem { Id = 1, Title = "Information" },
            new MasterDetailPageBmiMenuItem { Id = 2, Title = "Record" },
        });
    }
```

Activity 4 – Add a New Page

1. Add a new page for Information. Right click on the project name. Add new file. Forms > Forms ContentPage XAML. Set the name to Information. You will find 2 files created, Information.xaml and Information.xaml.cs.
2. Open Information.xaml. Replace <ContentPage.Content> </ContentPage.Content> with the following code.

```
<StackLayout HorizontalOptions="Fill" VerticalOptions="Center">
    <Label
        Text="Underweight (below 18.5)"
        HorizontalTextAlignment="Center"
        VerticalTextAlignment="Center"
        />
    <Label
        Text="Normal (18.5 - below 25)"
        HorizontalTextAlignment="Center"
        VerticalTextAlignment="Center"
        />
</StackLayout>
```

3. Continue the previous code for Overweight and Obese.
4. Add the TargetType in the MenuList for the Information page. Open MasterDetailPageBmiMaster.xaml.cs.

```
MenuItems = new ObservableCollection<MasterDetailPageBmiMenuItem>(new[]
        {
            new MasterDetailPageBmiMenuItem { Id = 0, Title = "BMI Calculator",
TargetType=typeof(MainPage) },
            new MasterDetailPageBmiMenuItem { Id = 1, Title = "Information",
TargetType=typeof(Information) },
            new MasterDetailPageBmiMenuItem { Id = 2, Title = "Record" },
                });
```

5. Add a new page for Record. Right click on the project name. Add new file. Forms > Forms ContentPage XAML. Set the name to Record. You will find 2 files created, Record.xaml and Record.xaml.cs.

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6. Open Record.xaml. Replace <ContentPage.Content> </ContentPage.Content> with the following code.

```
<StackLayout HorizontalOptions="Fill" >
    <Label
       Text="To be added"
       HorizontalTextAlignment="Center"
       VerticalTextAlignment="Center"
       />

        </StackLayout>
```
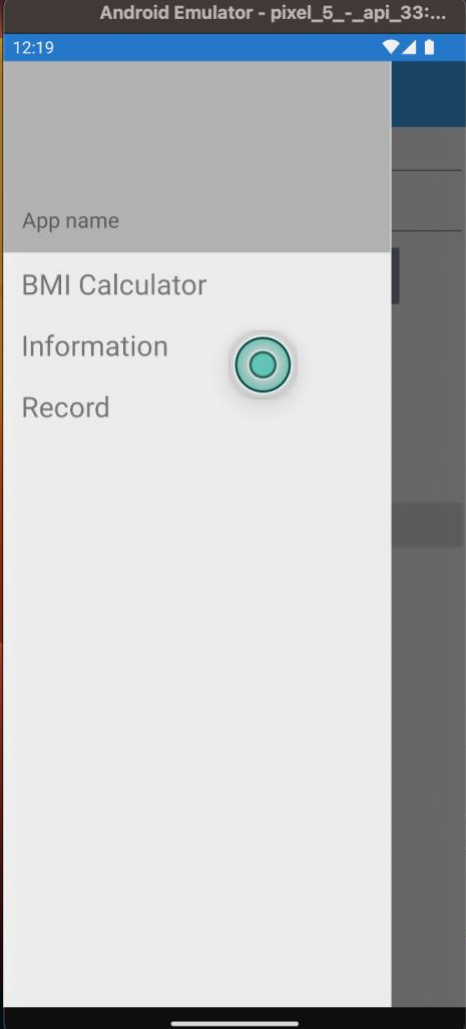
7. Add the TargetType in the MenuList for the Record page. Open MasterDetailPageBmiMaster.xaml.cs.
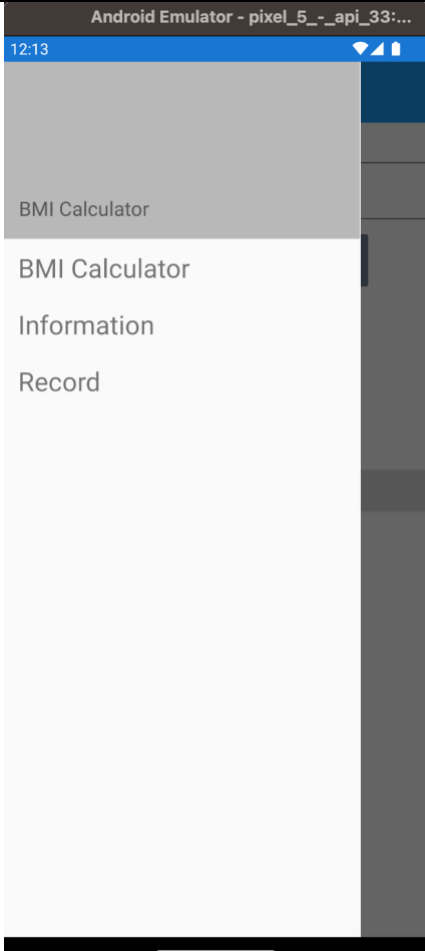
```
MenuItems = new ObservableCollection<MasterDetailPageBmiMenuItem>(new[]
        {
            new MasterDetailPageBmiMenuItem { Id = 0, Title = "BMI Calculator",
TargetType=typeof(MainPage) },
            new MasterDetailPageBmiMenuItem { Id = 1, Title = "Information",
TargetType=typeof(Information) },
            new MasterDetailPageBmiMenuItem { Id = 2, Title = "Record",
TargetType=typeof(Record) },
                });
```

8. Run the application on Android/iOS. Click Information. Screen capture the result on Android/iOS.

9. Run the application on Android/iOS. Click Record. Screen capture the result on Android/iOS.

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Instruction: Write your answer in the specified column given.
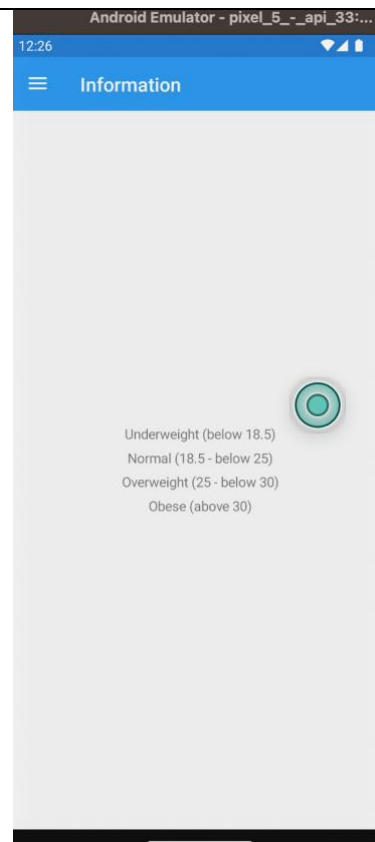
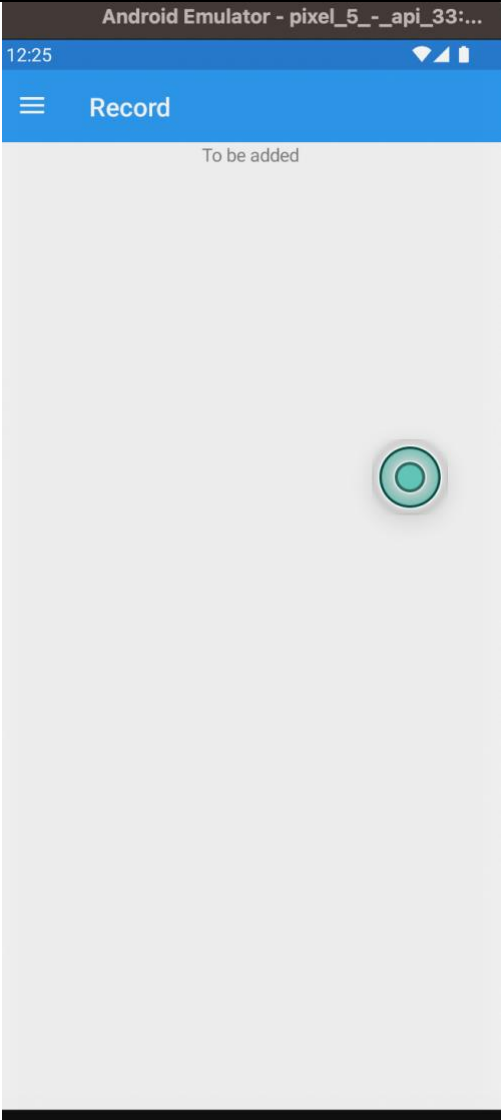| QUESTION	MARKS	ANSWER
Activity 1		
Run the application on Android/iOS. Try to click the hamburger icon. Screen capture the result on Android/iOS.	5	
Activity 2		

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Run the application on Android/iOS. Try to click the hamburger icon. Screen capture the result on Android/iOS.	5	
Activity 3		
Activity 4		

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Run the application on Android/iOS. Click Information. Screen capture the result on Android/iOS.	5		

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Run the application on Android/iOS. Click Record. Screen capture the result on Android/iOS.	5	
TOTAL	**20**	

Rename your word document file to: CSNB544 Lab 7 <student Name>.pdf before the submission. Submission type: Online