

Final Project

Dear Trainees,

One of the criteria to pass this training program is your shown ability to develop a simple web application.

We provide these screen mockups for you. Your mission is to develop an application and database which will have the functionalities as shown in the mockups using all of the knowledge you have learnt in the training program.

The working product will be assessed separately – you need to put your works in a single folder (properly named) and we will collect it just before you present your project on Tuesday, 2 May 2017.

You also need to present your project. Details on how you need to present it will be informed separately.

Employee Application

Due to the time limit, you will develop some features of this employee application, which will be detailed in each screen. Login feature is excluded.

Main screen - There are search bar, employee list, and employee details. Please disregard the hidden tabs in the details panel.

Keep the icons and user login info on the bar for informational purpose only.

Employee Card	Details Panel
Albertus Mahaputra SE - PG, CDC AsteRx Bali, +6281234567890 22 Aug 2015	First Name Albertus Sub Division Java Bootcamp
Karena Cindy Alika SE - AP, SWD Pink Yogyakarta, +6281234567890 20 May 2012	Last Name Mahaputra Status Contract
Nicholas Kondang SE - AN, SWD Green Bandung, +6281234567890 01 Sep 2005	Gender Male Suspend Date -
Diandra Sastrowardoyo FA-FA4, Finance & Accounting Jakarta, +6281234567890 08 Jul 2006	Date Of Birth July 2, 1983 Hired Date 22 August 2005
Albertus Mahaputra SE - PG, CDC AsteRx Bali, +6281234567890 22 Aug 2015	Nationality Australian Grade SE - PG
Karena Cindy Alika SE - AP, SWD Pink Yogyakarta, +6281234567890 20 May 2012	Marital Status Single Division CDC AsteRx
Nicholas Kondang SE - AN, SWD Green Bandung, +6281234567890 01 Sep 2005	Phone +628123565787 Email milla.khan@gmail.com
Diandra Sastrowardoyo FA-FA4, Finance & Accounting Jakarta, +6281234567890 08 Jul 2006	
Albertus Mahaputra SE - PG, CDC AsteRx Bali, +6281234567890 22 Aug 2015	
Karena Cindy Alika SE - AP, SWD Pink Yogyakarta, +6281234567890 20 May 2012	
Nicholas Kondang SE - AN, SWD Green Bandung, +6281234567890 01 Sep 2005	

When you click on a card (left hand side – the employee list), the card will be highlighted and a delete icon will be displayed. When the delete icon is clicked, a simple popup dialog will be displayed with OK and Cancel buttons. If OK is clicked, the data will be removed from the view and database. Cancel button should work as commonly expected.

Employee Card	Details Panel
Albertus Mahaputra SE - PG, CDC AsteRx Bali, +6281234567890 22 Aug 2015	First Name Albertus Sub Division Java Bootcamp
Karena Cindy Alika SE - AP, SWD Pink Yogyakarta, +6281234567890 20 May 2012	Last Name Mahaputra Status Contract
Nicholas Kondang SE - AN, SWD Green Bandung, +6281234567890 01 Sep 2005	Gender Male Suspend Date -

To add a new employee, click on the fab (floating action button) with a plus sign, the employee details will be blank. When the save button is clicked, the data will be saved to the database and the list view (the left hand side) will be updated. Develop the employee detail fields as displayed on the screen, including the ability to upload employee photo. Also, add a new drop down field named Location in the details view. The lookup value is taken from a database table. The other fields hidden in the tabs next to employee detail icon are out of scope.

Michael Jacob Hutapea
SE - AP

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<div> <div>Albertus Mahaputra</div> <div>SE - PG, CDC AsteRx Bali, +6281234567890</div> <div>22 Aug 2015</div> <div></div> </div>	<div>First Name</div> <div></div>	<div>Sub Division</div> <div></div>	<div></div> <div></div>
<div> <div>Karena Cindy Alika</div> <div>SE - AP, SWD Pink Yogyakarta, +6281234567890</div> <div>20 May 2012</div> <div></div> </div>	<div>Last Name</div> <div></div>	<div>Status</div> <div></div>	
<div> <div>Nicholas Kondang</div> <div>SE - AN, SWD Green Bandung, +6281234567890</div> <div>01 Sep 2005</div> <div></div> </div>	<div>Gender</div> <div></div>	<div>Suspend Date</div> <div></div>	
<div> <div>Diandra Sastrowardoyo</div> <div>FA-FA4, Finance & Accounting Jakarta, +6281234567890</div> <div>08 Jul 2006</div> <div></div> </div>	<div>Date Of Birth</div> <div></div>	<div>Hired Date</div> <div></div>	
<div> <div>Albertus Mahaputra</div> <div>SE - PG, CDC AsteRx Bali, +6281234567890</div> <div>22 Aug 2015</div> <div></div> </div>	<div>Nationality</div> <div></div>	<div>Grade</div> <div></div>	
<div> <div>Karena Cindy Alika</div> <div>SE - AP, SWD Pink Yogyakarta, +6281234567890</div> <div>20 May 2012</div> <div></div> </div>	<div>Marital Status</div> <div></div>	<div>Division</div> <div></div>	
<div> <div>Nicholas Kondang</div> <div>SE - AN, SWD Green Bandung, +6281234567890</div> <div>01 Sep 2005</div> <div></div> </div>	<div>Phone</div> <div></div>	<div>Email</div> <div></div>	
<div> <div>Diandra Sastrowardoyo</div> <div>FA-FA4, Finance & Accounting Jakarta, +6281234567890</div> <div>08 Jul 2006</div> <div></div> </div>			
<div> <div>Albertus Mahaputra</div> <div>SE - PG, CDC AsteRx Bali, +6281234567890</div> <div>22 Aug 2015</div> <div></div> </div>			
<div> <div>Karena Cindy Alika</div> <div>SE - AP, SWD Pink Yogyakarta, +6281234567890</div> <div>20 May 2012</div> <div></div> </div>			
<div> <div>Nicholas Kondang</div> <div>SE - AN, SWD Green Bandung, +6281234567890</div> <div>01 Sep 2005</div> <div></div> </div>			

CANCEL

SAVE

To search an employee, user can type a name in the search bar. The partial match is allowed. The counter shows how many employees found for the given search criteria.

The screenshot shows a web application interface for employee management. At the top, a user profile for Michael Jacob Hutapea (SE - AP) is displayed. Below the header, a search bar contains the text 'Milla', and a filter icon shows 5 results. The main content area is divided into two columns. The left column lists five employees: Milla Khan, Steffan Millano, Dewi Millasti Atmanegara, Milla Cruz, and Karmilla El Zara, each with their photo, name, title, location, and phone number. The right column shows the details for the selected employee, Milla Khan, including first and last name, sub division, status, gender, date of birth, hired date, nationality, grade, marital status, and division. A red plus button is visible at the bottom right of the employee list.

Employee Name	Title	Location	Phone Number
Milla Khan	SE - PG, CDC AsteRx	Bali	+6281234567890
Steffan Millano	SE - AP, SWD Pink	Bali	+6281234567890
Dewi Millasti Atmanegara	SE - PG, SWD Blue	Jakarta	+6281234567890
Milla Cruz	SE - AN, SWD Green	Yogyakarta	+6281234567890
Karmilla El Zara	SE - PG, SWD Blue	Jakarta	+6281234567890

Field	Value
First Name	Milla
Last Name	Khan
Sub Division	Java Bootcamp
Status	Permanent
Gender	Male
Suspend Date	-
Date Of Birth	July 2, 1983
Hired Date	03 June 2013
Nationality	Australian
Grade	SE - PG
Marital Status	Single
Division	CDC AsteRx

When there is no match, the following screen is displayed.

The screenshot shows the same application interface, but the search bar now contains 'Evangelista'. The filter icon shows 0 results. The main content area displays a message: 'We couldn't find what you were looking for .'. The right column is empty.

The list can be sorted by clicking on sort button (ascending or descending based on last name).

The filter is used to filter employee based on the location and gender. You can use a simple popup to accommodate this requirement.

Notes:

1. Since you are not expected to develop the login feature, it is assumed that you are logged in and your name should appear at the top of the application
2. The names, Grades, Divisions, etc. can be fictional
3. The pictures may be taken randomly from the Internet
4. There should be at least 12 employees in the database
5. There should be at least 3 employees with similar names, e.g. John Travolta, Johnny Depp, Johnathan Thurston, etc.
6. Other things that are not explained in this document are out of scope – you don't have to develop them
7. However, if you have extra time, you may develop other features after you have developed all the required features
8. If you have any question at all regarding anything you may answer it yourself based on your good assumption

Assessment criteria:

1. All required features are fully functional
2. Absence of bugs
3. The codes are easy to be maintained, e.g. anyone else can easily understand your codes