

**LAPORAN TUGAS BESAR PEMROGRAMAN  
PERANGKAT BERGERAK  
APLIKASI RESEP MAKANAN BERBASIS MOBILE SWEET  
RECIPE**

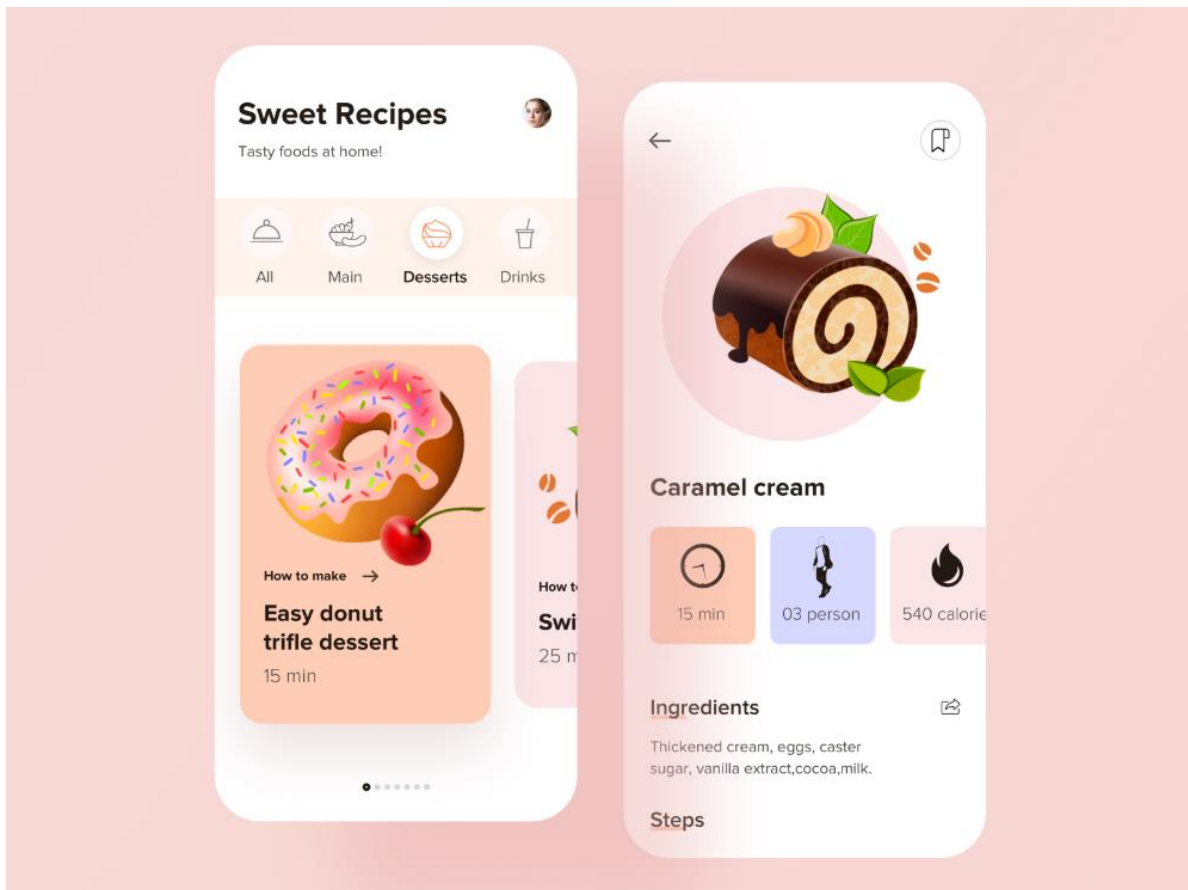


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**PROGRAM STUDI TEKNIK MULTIMEDIA & JARINGAN  
JURUSAN TEKNIK INFORMATIKA  
POLITEKNIK NEGERI BATAM  
2020**

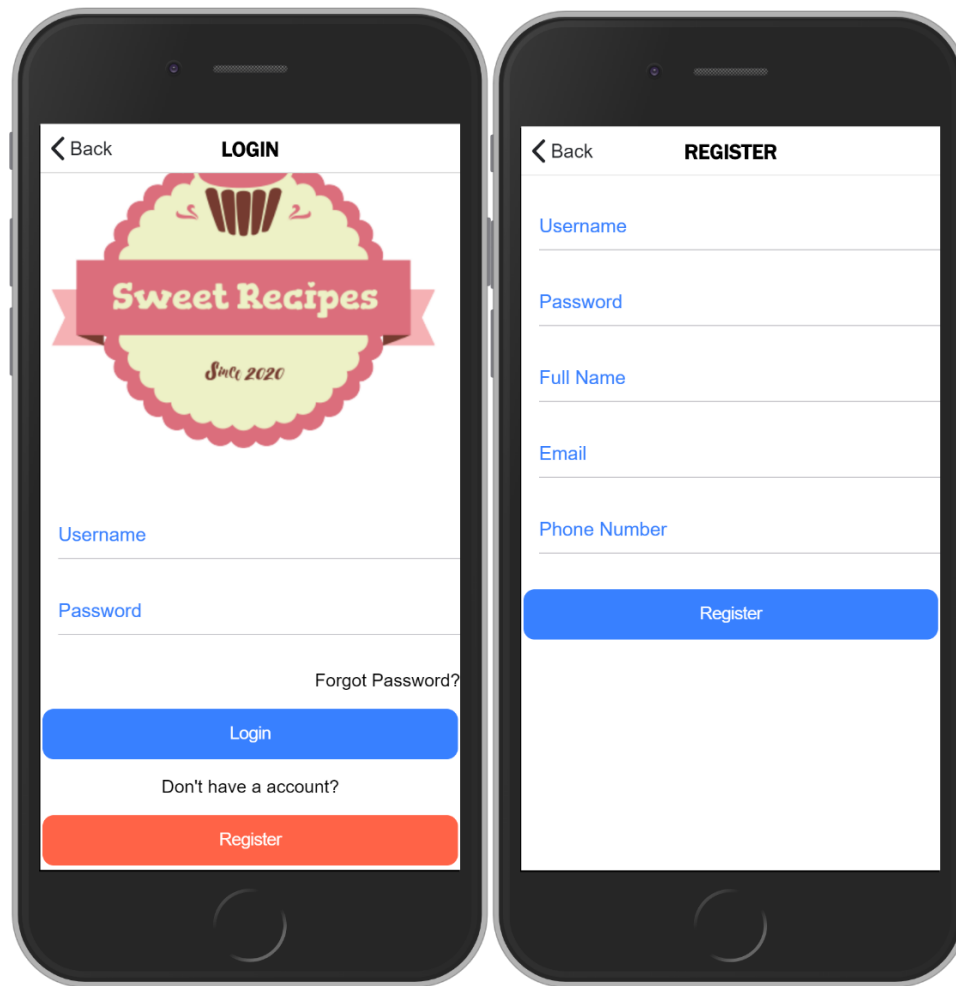
**Referensi :** <https://dribbble.com/shots/8497072-Recipe-App-Design>



Aplikasi ini menyajikan berbagai info menarik mengenai resep kue yang simple dengan bahan-bahan yang mudah ditemui. Pada aplikasi ini, akan menampilkan estimasi waktu penyajian, jumlah porsi masakan yang dapat di buat, dan jumlah kalori yang terkandung dalam makanan.

Aplikasi ini memiliki tampilan yang minimalis dan sangat cocok untuk anda yang gemar mencoba resep baru, karena tersedia berbagai macam resep yang menarik. Sebelum masuk, pengguna akan login atau membuat akun baru supaya dapat melihat resep yang tersedia. Pengguna juga dapat menandai atau menyimpan resep masakan yang favorit.

## 1. Halaman *Login & Register*



Pada halaman *login*, terdapat *form* yang dapat diisi jika sudah memiliki akun, yaitu:

- 1) *Form Username*
- 2) *Form Password*

Sedangkan Pada halaman *register* terdapat *form* untuk membuat akun baru, yaitu:

- 1) *Form Username*
- 2) *Form Password*
- 3) *Form Full Name*
- 4) *Form Email*
- 5) *Form Phone Number*

Untuk menampilkan halaman *login* menggunakan *coding* berikut:

```

src > app > login > login.page.html > ion-content > ion-list > ion-item
1 <ion-header>
2   <ion-toolbar>
3     <ion-buttons slot="start">
4       <ion-back-button defaultHref="home" color="dark"></ion-back-button>
5     </ion-buttons>
6     <ion-title>
7       style="font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif; font-weight: bold;font-size: 120%;"
8       LOGIN</ion-title>
9     </ion-toolbar>
10  </ion-header>
11
12  <ion-content>
13    <ion-grid>
14      <ion-row>
15        <ion-col><br />
16        <br /><br />
17      </ion-col>
18    </ion-row>
19  </ion-grid>
20  <ion-list>
21    <ion-item>
22      <ion-label color="primary" position="floating">Username</ion-label>
23      <ion-input type="text"></ion-input>
24    </ion-item>
25    <ion-item>
26      <ion-label color="primary" position="floating">Password</ion-label>
27      <ion-input type="text"></ion-input>
28    </ion-item>
29  </ion-list>
30
31  <p class="ion-text-right">Forgot Password?</p>
32  <ion-button type="submit" expand="block" color="primary" [routerLink]="['/home']" (click)="login(item)">Login</ion-button>
33
34  <p class="ion-text-center">Don't have a account?</p>
35  <ion-button expand="block" color="danger" [routerLink]="['/register']">Register</ion-button>
36 </ion-content>

```

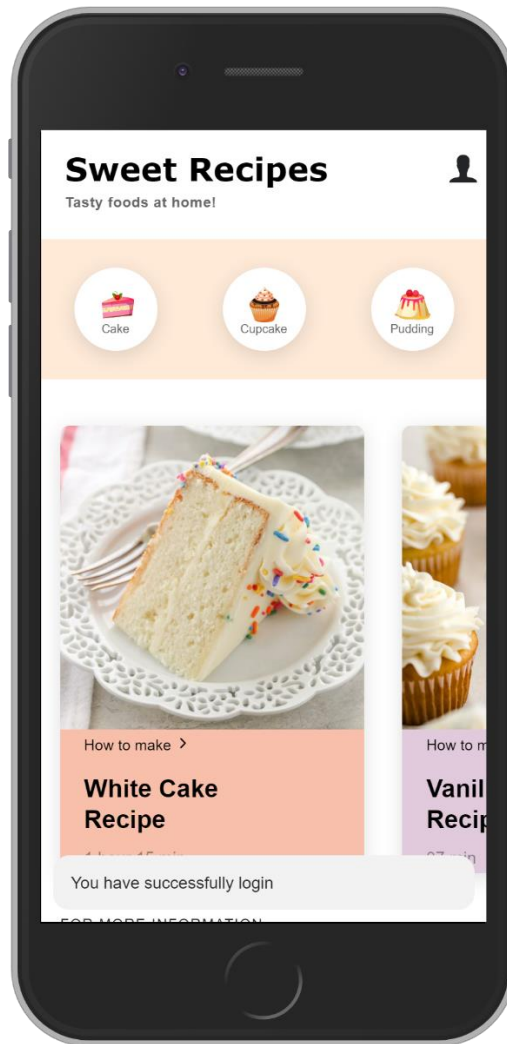
Sedangkan untuk menampilkan halaman *register* menggunakan *coding* berikut:

```

src > app > register > register.page.html > ion-header > ion-toolbar > ion-title
1 <ion-header>
2   <ion-toolbar>
3     <ion-buttons slot="start">
4       <ion-back-button defaultHref="home" color="dark"></ion-back-button>
5     </ion-buttons>
6     <ion-title>
7       style="font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif; font-weight: bold;font-size: 120%;"
8       REGISTER</ion-title>
9     </ion-toolbar>
10  </ion-header>
11
12  <ion-content>
13    <ion-list>
14      <ion-item>
15        <ion-label color="primary" position="floating">Username</ion-label>
16        <ion-input type="text"></ion-input>
17      </ion-item>
18      <ion-item>
19        <ion-label color="primary" position="floating">Password</ion-label>
20        <ion-input type="text"></ion-input>
21      </ion-item>
22      <ion-item>
23        <ion-label color="primary" position="floating">Full Name</ion-label>
24        <ion-input type="text"></ion-input>
25      </ion-item>
26      <ion-item>
27        <ion-label color="primary" position="floating">Email</ion-label>
28        <ion-input type="text"></ion-input>
29      </ion-item>
30      <ion-item>
31        <ion-label color="primary" position="floating">Phone Number</ion-label>
32        <ion-input type="text"></ion-input>
33      </ion-item>
34    </ion-list>
35
36    <ion-button type="submit" expand="block" color="primary" [routerLink]="['/home']" (click)="register(item)">Register</ion-button>
37  </ion-content>

```

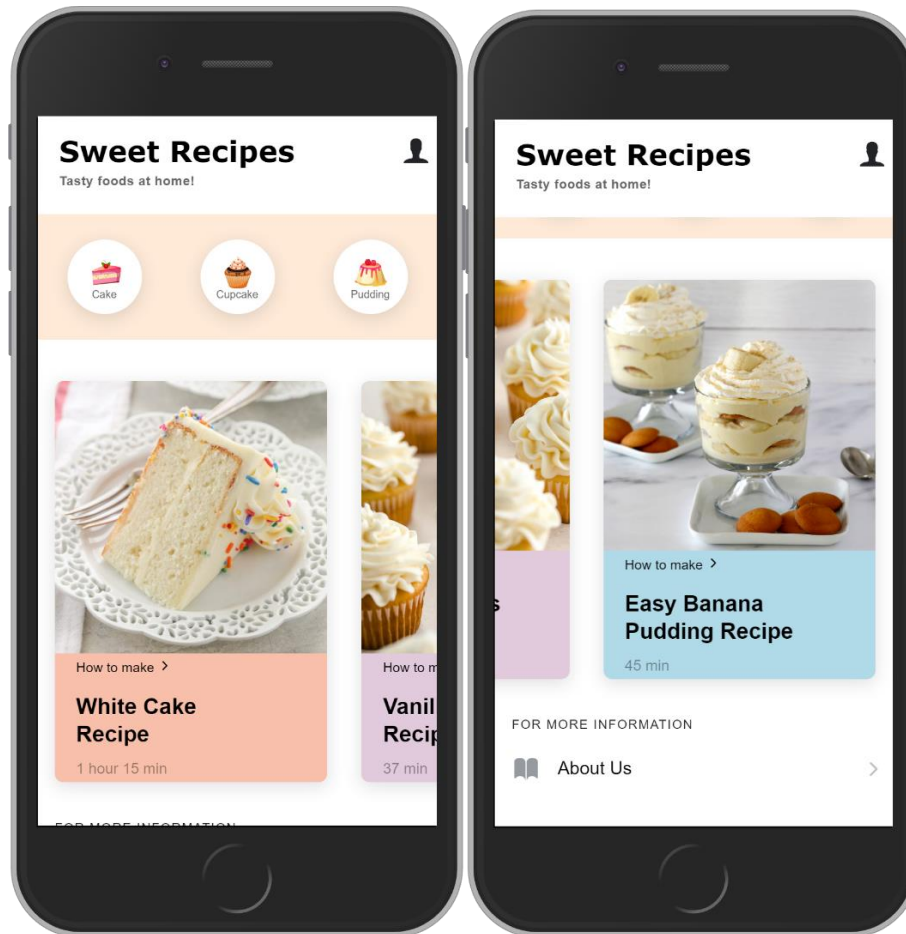
Jika sudah berhasil login atau *register* dengan mengisi *form*, *User* akan diarahkan ke halaman *home* dan akan muncul teks “*You have suscessfully login*”. Maka *user* sudah berhasil masuk ke halaman *home*.



Untuk menampilkan teks “*You have successfully login*” menggunakan *coding* berikut:

```
src > app > login > TS login.page.ts > ...
1  import { Component, OnInit } from '@angular/core';
2  import { UtilsService } from '../service/utils.service';
3
4  @Component({
5    selector: 'app-login',
6    templateUrl: './login.page.html',
7    styleUrls: ['./login.page.scss'],
8  })
9  export class LoginPage{
10
11    constructor(private utils: UtilsService) { }
12
13    login(data) {
14      console.log('You have successfully login');
15      this.utils.showToast('You have successfully login');
16    }
17
18  }
19
```

## 2. Halaman *Home*



Pada halaman *home*, terdapat beberapa fitur, yaitu:

- 1) Fitur navigasi bar  
Ketika user klik salah satu navigasi bar yang ada, misalnya *cake*. Maka *user* akan diarahkan ke halaman *cake*.
- 2) Fitur *sliding image* (rekomendasi resep)  
Ketika *user* klik salah satu rekomendasi resep yang ada, maka *user* akan diarahkan ke halaman resep yang di pilih.

Di sebelah pojok kanan atas terdapat ikon profil, yang apabila di klik akan mengarahkan langsung ke halaman *login*.

Pada halaman *home* juga terdapat informasi tentang Aplikasi dan pembuat Aplikasi di halaman *About Us*.

Untuk menampilkan halaman *home* menggunakan *coding* berikut:

```
src > app > home > home.page.html > ion-header
1  <ion-header>
2  |   <div style="padding-top: 10px;"></div>
3  |   <ion-toolbar>
4  |     <ion-title>
5  |       style="font-family: Verdana, Geneva, Tahoma, sans-serif; font-weight: bold; text-align: left; font-size: 170%; padding-left: 20px;"
6  |       Sweet Recipes
7  |     </ion-title>
8  |     <ion-buttons slot="primary">
9  |       <ion-icon slot="icon-only" name="person" color="dark" [routerLink]="['/login']"></ion-icon>
10 |     </ion-buttons>
11 |   </ion-toolbar>
12 |   <ion-card-subtitle style="text-transform: inherit ; text-align: left; padding-left: 20px;">
13 |     Tasty foods at home!
14 |   </ion-card-subtitle>
15 |   <div style="padding-bottom: 20px;"></div>
16 </ion-header>
```

Untuk menampilkan Navigasi bar menggunakan *coding* berikut:

```
18 <ion-content>
19 |   <ion-slides [options]="slidebaru" style="background-color: #ffdab98e;">
20 |     <ion-slide>
21 |       <ion-row>
22 |         <ion-card class="slide">
23 |           <ion-tab-button tab="cake" [routerLink]="['/cake']">
24 |             <ion-icon src="/assets/icon/cake.svg"></ion-icon>
25 |             <ion-label>Cake</ion-label>
26 |           </ion-tab-button>
27 |         </ion-card>
28 |       </ion-row>
29 |     </ion-slide>
30 |     <ion-slide>
31 |       <ion-row>
32 |         <ion-card class="slide">
33 |           <ion-tab-button tab="cupcake" [routerLink]="['/cupcake']">
34 |             <ion-icon src="/assets/icon/cupcake.svg"></ion-icon>
35 |             <ion-label>Cupcake</ion-label>
36 |           </ion-tab-button>
37 |         </ion-card>
38 |       </ion-row>
39 |     </ion-slide>
40 |     <ion-slide>
41 |       <ion-row>
42 |         <ion-card class="slide">
43 |           <ion-tab-button tab="pudding" [routerLink]="['/pudding']">
44 |             <ion-icon src="/assets/icon/pudding.svg"></ion-icon>
45 |             <ion-label>Pudding</ion-label>
46 |           </ion-tab-button>
47 |         </ion-card>
48 |       </ion-row>
49 |     </ion-slide>
50 |   </ion-slides>
```

Untuk menampilkan Resep rekomendasi menggunakan *coding* berikut:

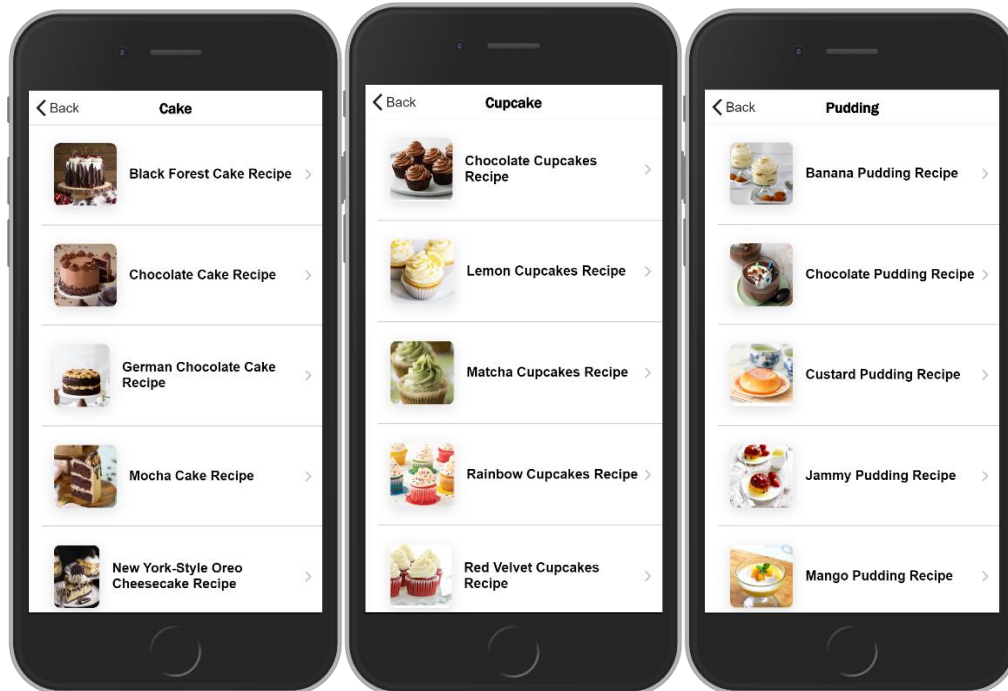
```
53 <ion-slides scrollbar="false" [options]="slidelagi">
54   <ion-slide>
55     <ion-card class="color1" [routerLink]="['/cake/white-cake']">
56       
57       <ion-label style="text-align: left;">
58         <p style="padding-left: 20px; padding-top: 5px; color: black; font-size: 90%;">How to make <ion-icon
59           name="arrow-forward"></ion-icon>
60         </p>
61         <p style="padding-left: 20px; padding-top: 15px; color: black; font-weight: bold; font-size: 150%;">
62           White Cake</p>
63         <p style="padding-left: 20px; padding-bottom: 10px; color: black; font-weight: bold; font-size: 150%;">Recipe
64         </p>
65         <p style="padding-left: 20px; padding-bottom: 5px; font-size: 100%;">1 hour 15 min</p>
66       </ion-label>
67     </ion-card>
68   </ion-slide>
69
70   <ion-slide>
71     <ion-card class="color2" [routerLink]="['/cupcake/vanilla-cupcake']">
72       
73       <ion-label style="text-align: left;">
74         <p style="padding-left: 20px; padding-top: 5px; color: black; font-size: 90%;">How to make <ion-icon
75           name="arrow-forward"></ion-icon>
76         </p>
77         <p style="padding-left: 20px; padding-top: 15px; color: black; font-weight: bold; font-size: 150%;">
78           Vanilla Cupcakes</p>
79         <p style="padding-left: 20px; padding-bottom: 10px; color: black; font-weight: bold; font-size: 150%;">Recipe
80         </p>
81         <p style="padding-left: 20px; padding-bottom: 5px; font-size: 100%;">37 min</p>
82       </ion-label>
83     </ion-card>
84   </ion-slide>
85
86   <ion-slide>
87     <ion-card class="color3" [routerLink]="['/pudding/easy-banana-pudding']">
88       
89       <ion-label style="text-align: left;">
90         <p style="padding-left: 20px; padding-top: 5px; color: black; font-size: 90%;">How to make <ion-icon
91           name="arrow-forward"></ion-icon>
92         </p>
93         <p style="padding-left: 20px; padding-top: 15px; color: black; font-weight: bold; font-size: 150%;">
94           Easy Banana</p>
95         <p style="padding-left: 20px; padding-bottom: 10px; color: black; font-weight: bold; font-size: 150%;">Pudding
96         </p>
97         <p style="padding-left: 20px; padding-bottom: 5px; font-size: 100%;">45 min</p>
98       </ion-label>
99     </ion-card>
100   </ion-slide>
101 </ion-slides>
```

Untuk menampilkan *For more information / about us* menggunakan *coding* berikut:

```
104 <ion-list lines="none">
105   <ion-list-header>
106     <ion-label>For More Information</ion-label>
107   </ion-list-header>
108   <ion-item [routerLink]="['/about-us']">
109     <ion-icon slot="start" color="medium" name="book"></ion-icon>
110     <ion-label>About Us</ion-label>
111   </ion-item>
112 </ion-list>
113 </ion-content>
```



### 3. Halaman Resep (*Cake*, *Cupcake*, dan *Pudding*).

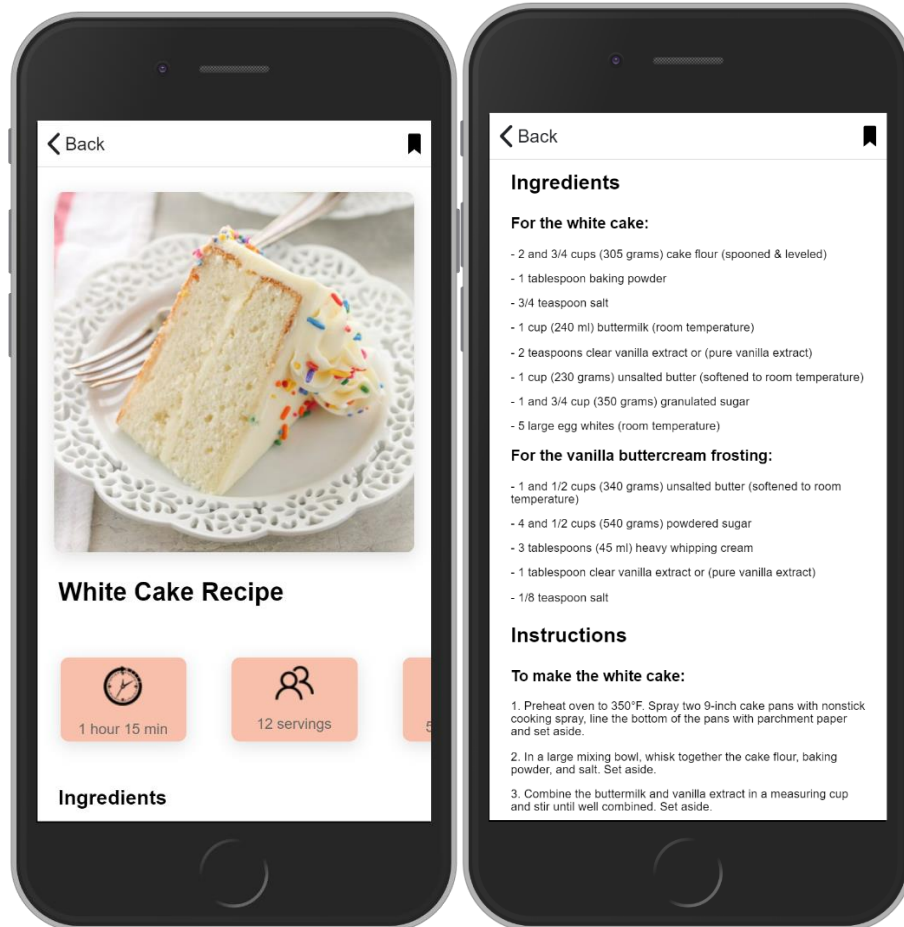


Pada halaman resep yaitu halaman *cake*, *cupcake* dan *pudding* terdapat suguhan berbagai macam pilihan resep sesuai dengan kategori. Apabila *user* meng klik pada salah satu resep, maka *user* akan langsung diarahkan ke halaman resep yang di pilih.

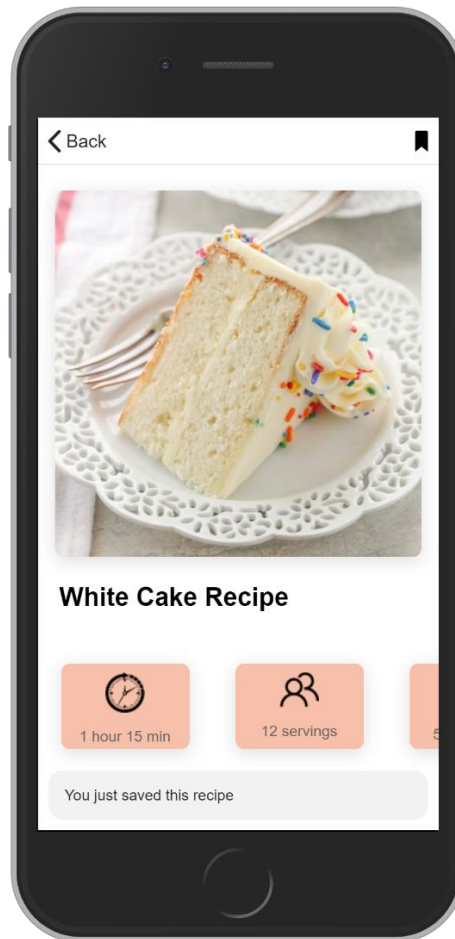
Untuk menampilkan Halaman resep menggunakan *coding* berikut:

```
src > app > cake > cake.page.html > ion-headers
1  <ion-header>
2    <ion-toolbar>
3      <ion-buttons slot="start">
4        <ion-back-button defaultHref="home" color="dark"></ion-back-button>
5      </ion-buttons>
6      <ion-title>
7        style="font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif; font-weight: bold;font-size: 120%;>
8        Cake;</ion-title>
9      </ion-toolbar>
10   </ion-header>
11
12  <ion-content>
13    <ion-list>
14      <ion-item class="item-thumbnail-left" style="font-weight: bold;" [routerLink]="['/cake/black-forest-cake']">
15        <ion-card class="card1">
16          
17        </ion-card>
18        Black Forest Cake Recipe
19      </ion-item>
20      <ion-item class="item-thumbnail-left" style="font-weight: bold;" [routerLink]="['/cake/chocolate-cake']">
21        <ion-card class="card1">
22          
23        </ion-card>
24        Chocolate Cake Recipe
25      </ion-item>
26      <ion-item class="item-thumbnail-left" style="font-weight: bold;" [routerLink]="['/cake/german-chocolate-cake']">
27        <ion-card class="card1">
28          
29        </ion-card>
30        German Chocolate Cake Recipe
31      </ion-item>
32      <ion-item class="item-thumbnail-left" style="font-weight: bold;" [routerLink]="['/cake/mocha-cake']">
33        <ion-card class="card1">
34          
35        </ion-card>
36        Mocha Cake Recipe
37      </ion-item>
38    </ion-list>
39  </ion-content>
40</pre>
```

#### 4. Halaman Resep Yang dipilih *User*



Pada halaman resep yang dipilih *user* terdapat gambar, informasi bahan-bahan dan cara memasak. Terdapat juga informasi tentang waktu memasak, porsi, dan juga banyak kalori. Pada halaman ini ada satu fitur yaitu simpan resep hanya dengan meng klik ikon *save* di sebelah pojok kanan atas. Ketika ikon *save* di klik maka akan muncul teks “ *You just saved this recipe*” yang artinya resep telah berhasil disimpan.



Untuk menampilkan Halaman resep yang dipilih menggunakan *coding* berikut:

```
src > app > cake > white-cake > white-cake.page.html > ion-header
1  <ion-header>
2    <ion-toolbar>
3      <ion-buttons slot="start">
4        <ion-back-button defaultHref="#" color="dark"></ion-back-button>
5      </ion-buttons>
6      <ion-title></ion-title>
7      <ion-buttons slot="primary">
8        <ion-icon style="font-size: 150%; name="bookmark" (click)="save(item)"></ion-icon>
9      </ion-buttons>
10   </ion-toolbar>
11 </ion-header>
12
13 <ion-content>
14   <ion-card>
15     
16   </ion-card>
17   <p style="padding-left: 20px; font-weight: bold; font-size: 150%;">White Cake Recipe</p>
18
19   <ion-slides [options]='slidecake'>
20     <ion-slide *ngFor="let item of content">
21       <ion-card class="content">
22         
23         <p>{{item.content}}</p>
24       </ion-card>
25     </ion-slide>
26   </ion-slides>
```

```

28 <p style="padding-left: 20px; font-weight: bold; font-size: 120%;>Ingredients</p>
29 <p style="padding-left: 20px; font-weight: bold; font-size: 90%;>For the white cake:</p>
30 <p style="padding-left: 20px; font-size: 70%;>- 2 and 3/4 cups (385 grams) cake flour (spooned & leveled)</p>
31 <p style="padding-left: 20px; font-size: 70%;>- 1 tablespoon baking powder</p>
32 <p style="padding-left: 20px; font-size: 70%;>- 3/4 teaspoon salt</p>
33 <p style="padding-left: 20px; font-size: 70%;>- 1 cup (240 ml) buttermilk (room temperature)</p>
34 <p style="padding-left: 20px; font-size: 70%;>- 2 teaspoons clear vanilla extract or (pure vanilla extract)</p>
35 <p style="padding-left: 20px; font-size: 70%;>- 1 cup (238 grams) unsalted butter (softened to room temperature)</p>
36 <p style="padding-left: 20px; font-size: 70%;>- 1 and 3/4 cup (350 grams) granulated sugar</p>
37 <p style="padding-left: 20px; font-size: 70%;>- 5 large egg whites (room temperature)</p>
38
39 <p style="padding-left: 20px; font-weight: bold; font-size: 90%;>For the vanilla buttercream frosting:</p>
40 <p style="padding-left: 20px; font-size: 70%;>- 1 and 1/2 cups (340 grams) unsalted butter (softened to room temperature)</p>
41 <p style="padding-left: 20px; font-size: 70%;>- 4 and 1/2 cups (540 grams) powdered sugar</p>
42 <p style="padding-left: 20px; font-size: 70%;>- 3 tablespoons (45 ml) heavy whipping cream</p>
43 <p style="padding-left: 20px; font-size: 70%;>- 1 tablespoon clear vanilla extract or (pure vanilla extract)</p>
44 <p style="padding-left: 20px; font-size: 70%;>- 1/8 teaspoon salt</p>
45
46 <p style="padding-left: 20px; padding-right: 20px; font-weight: bold; font-size: 120%;>Instructions:</p>
47 <p style="padding-left: 20px; padding-right: 20px; font-weight: bold; font-size: 90%;>To make the white cake:</p>
48 <p style="padding-left: 20px; padding-right: 20px; font-size: 70%;>1. Preheat oven to 350°F. Spray two 9-inch cake pans with nonstick cooking spray, line the bottom of the pans with parchment paper, and grease the sides.</p>
49 <p style="padding-left: 20px; padding-right: 20px; font-size: 70%;>2. In a large mixing bowl, whisk together the cake flour, baking powder, and salt. Set aside.</p>
50 <p style="padding-left: 20px; padding-right: 20px; font-size: 70%;>3. Combine the buttermilk and vanilla extract in a measuring cup and stir until well combined. Set aside.</p>
51 <p style="padding-left: 20px; padding-right: 20px; font-size: 70%;>4. In the bowl of a stand mixer fitted with the paddle attachment, or in a large mixing bowl using an electric mixer, beat the butter and sugar on medium speed until light and fluffy, about 3 minutes.
52 <p style="padding-left: 20px; padding-right: 20px; font-size: 70%;>5. Add the dry ingredients to the creamed butter and sugar in three additions alternating with the buttermilk mixture. Mix on low speed until just combined.
53 <p style="padding-left: 20px; padding-right: 20px; font-size: 70%;>6. In a separate clean mixing bowl, beat the egg whites to stiff peaks. Gently fold half of the egg whites into the cake batter.
54 <p style="padding-left: 20px; padding-right: 20px; font-size: 70%;>7. Pour the cake batter into the prepared cake pans and spread around into one even layer. Gently tap the cake pans on the counter to remove air bubbles.
55 <p style="padding-left: 20px; padding-right: 20px; font-size: 70%;>8. Bake at 350°F for 28-32 minutes or until a toothpick inserted into the center of the cakes comes out clean. Remove from the oven and let cool in the pans for 10 minutes.
56
57 <p style="padding-left: 20px; padding-right: 20px; font-weight: bold; font-size: 90%;>To make the vanilla buttercream frosting:</p>
58 <p style="padding-left: 20px; padding-right: 20px; font-size: 70%;>1. In the bowl of a stand mixer fitted with the paddle attachment, or in a large mixing bowl using an electric mixer, beat the butter and sugar on medium speed until light and fluffy, about 3 minutes.
59 <p style="padding-left: 20px; padding-right: 20px; font-size: 70%;>2. Add the powdered sugar one cup at a time, making sure to mix well after each addition, stopping to scrape down the sides of the bowl.
60 <p style="padding-left: 20px; padding-right: 20px; font-size: 70%;>3. Add the heavy whipping cream, vanilla extract, and salt and mix on medium speed until fully combined, making sure to scrape down the sides of the bowl.
61
62 <p style="padding-left: 20px; padding-right: 20px; font-weight: bold; font-size: 90%;>To assemble the cake:</p>
63 <p style="padding-left: 20px; padding-right: 20px; font-size: 70%;>1. Level the tops of each cake with a knife or cake leveler. Place one of the cakes on a cake stand, top with a layer of frosting, and place the second cake on top.
64 </ion-content>

```

Untuk menampilkan Informasi waktu, porsi, dan kalori menggunakan *coding* berikut:

```

src > app > cake > white-cake > ts white-cake.page.ts > ...
1  import { Component, OnInit } from '@angular/core';
2  import { UtilsService } from 'src/app/service/Utils.service';
3
4  @Component({
5    selector: 'app-white-cake',
6    templateUrl: './white-cake.page.html',
7    styleUrls: ['./white-cake.page.scss'],
8  })
9  export class WhiteCakePage {
10
11    slidecake = {
12      slidesPerView: 2.3
13    }
14    content = [
15      {
16        img: './assets/time.png',
17        content: '1 hour 15 min'
18      },
19      {
20        img: './assets/person.png',
21        content: '12 servings'
22      },
23      {
24        img: './assets/calorie.png',
25        content: '550 calories'
26      }
27    ]
28  }

```

Untuk menampilkan teks “*You just saved this recipe*” menggunakan *coding* berikut:

```

29  save(data) {
30    console.log('You just saved this recipe');
31    this.utils.showToast('You just saved this recipe');
32  }
33
34  }

```