

TASK 1

HTML:

```
<link
href="//maxcdn.bootstrapcdn.com/bootstrap/3.3.0/css/bootstrap.min.css"
rel="stylesheet" id="bootstrap-css">
<script
src="//maxcdn.bootstrapcdn.com/bootstrap/3.3.0/js/bootstrap.min.js"></sc
ript>
<script src="//code.jquery.com/jquery-1.11.1.min.js"></script>
<!------- Include the above in your HEAD tag ----->
```

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
  <title>Whatsapp Template</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.
css">
  <link rel="stylesheet" href="whatsapp/2.css">
  <!-- Font Awesome File -->
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"></s
cript>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"
>
  </script><script src="whatsapp/3.js"> </script>
</head>
```

```
<body>

  <div class="container app">
    <div class="row app-one">

      <div class="col-sm-4 side">
        <div class="side-one">
          <!-- Heading -->
          <div class="row heading">
            <div class="col-sm-3 col-xs-3 heading-avatar">
```

```

        <div class="heading-avatar-icon">
            
        </div>
    </div>
    <div class="col-sm-1 col-xs-1 heading-dot pull-right">
        <i class="fa fa-ellipsis-v fa-2x pull-right" aria-
hidden="true"></i>
    </div>
    <div class="col-sm-2 col-xs-2 heading-compose pull-right">
        <i class="fa fa-comments fa-2x pull-right" aria-
hidden="true"></i>
    </div>
</div>
<!-- Heading End -->

<!-- SearchBox -->
<div class="row searchBox">
    <div class="col-sm-12 searchBox-inner">
        <div class="form-group has-feedback">
            <input id="searchText" type="text" class="form-control"
name="searchText" placeholder="Search">
            <span class="glyphicon glyphicon-search form-control-
feedback"></span>
        </div>
    </div>
</div>

<!-- Search Box End -->
<!-- sideBar -->
<div class="row sideBar">
    <div class="row sideBar-body">
        <div class="col-sm-3 col-xs-3 sideBar-avatar">
            <div class="avatar-icon">
                
            </div>
        </div>
        <div class="col-sm-9 col-xs-9 sideBar-main">
            <div class="row">
                <div class="col-sm-8 col-xs-8 sideBar-name">
                    <span class="name-meta">Allice
                </span>
            </div>
            <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
                <span class="time-meta pull-right">18:18

```

```
        </span>
      </div>
    </div>
  </div>
</div>
```

```
<div class="row sideBar-body">
  <div class="col-sm-3 col-xs-3 sideBar-avatar">
    <div class="avatar-icon">
      
    </div>
  </div>
  <div class="col-sm-9 col-xs-9 sideBar-main">
    <div class="row">
      <div class="col-sm-8 col-xs-8 sideBar-name">
        <span class="name-meta">Alice
      </span>
      </div>
      <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
        <span class="time-meta pull-right">18:18
      </span>
      </div>
    </div>
  </div>
</div>
```

```
<div class="row sideBar-body">
  <div class="col-sm-3 col-xs-3 sideBar-avatar">
    <div class="avatar-icon">
      
    </div>
  </div>
  <div class="col-sm-9 col-xs-9 sideBar-main">
    <div class="row">
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      </span>
      </div>
      <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
        <span class="time-meta pull-right">18:18
      </span>
      </div>
    </div>
  </div>
</div>
```

```
<div class="row sideBar-body">
  <div class="col-sm-3 col-xs-3 sideBar-avatar">
    <div class="avatar-icon">
      
    </div>
  </div>
  <div class="col-sm-9 col-xs-9 sideBar-main">
    <div class="row">
      <div class="col-sm-8 col-xs-8 sideBar-name">
        <span class="name-meta">Alicce
      </span>
      </div>
      <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
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      </span>
      </div>
    </div>
  </div>
</div>
<div class="row sideBar-body">
  <div class="col-sm-3 col-xs-3 sideBar-avatar">
    <div class="avatar-icon">
      
    </div>
  </div>
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      </span>
      </div>
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        <span class="time-meta pull-right">18:18
      </span>
      </div>
    </div>
  </div>
</div>
<div class="row sideBar-body">
  <div class="col-sm-3 col-xs-3 sideBar-avatar">
    <div class="avatar-icon">
      
    </div>
  </div>
  </div>
</div>
```

```
<div class="col-sm-9 col-xs-9 sideBar-main">
  <div class="row">
    <div class="col-sm-8 col-xs-8 sideBar-name">
      <span class="name-meta">Alice
    </span>
    </div>
    <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
      <span class="time-meta pull-right">18:18
    </span>
    </div>
  </div>
</div>
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  <div class="col-sm-3 col-xs-3 sideBar-avatar">
    <div class="avatar-icon">
      
    </div>
  </div>
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    <div class="row">
      <div class="col-sm-8 col-xs-8 sideBar-name">
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      </span>
      </div>
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      </div>
    </div>
  </div>
</div>
<div class="row sideBar-body">
  <div class="col-sm-3 col-xs-3 sideBar-avatar">
    <div class="avatar-icon">
      
    </div>
  </div>
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    <div class="row">
      <div class="col-sm-8 col-xs-8 sideBar-name">
        <span class="name-meta">Alice
      </span>
      </div>
    </div>
  </div>
</div>
```

```

        <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
            <span class="time-meta pull-right">18:18
        </span>
        </div>
    </div>
</div>
<div class="row sideBar-body">
    <div class="col-sm-3 col-xs-3 sideBar-avatar">
        <div class="avatar-icon">
            
        </div>
    </div>
    <div class="col-sm-9 col-xs-9 sideBar-main">
        <div class="row">
            <div class="col-sm-8 col-xs-8 sideBar-name">
                <span class="name-meta">Alicce
            </span>
            </div>
            <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
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            </span>
            </div>
        </div>
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        </div>
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                <span class="name-meta">Alicce
            </span>
            </div>
            <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
                <span class="time-meta pull-right">18:18
            </span>
            </div>
        </div>
    </div>
</div>

```

```
</div>
</div>
<!-- Sidebar End -->
</div>
<div class="side-two">

  <!-- Heading -->
  <div class="row newMessage-heading">
    <div class="row newMessage-main">
      <div class="col-sm-2 col-xs-2 newMessage-back">
        <i class="fa fa-arrow-left" aria-hidden="true"></i>
      </div>
      <div class="col-sm-10 col-xs-10 newMessage-title">
        New Chat
      </div>
    </div>
  </div>
</div>
<!-- Heading End -->

  <!-- ComposeBox -->
  <div class="row composeBox">
    <div class="col-sm-12 composeBox-inner">
      <div class="form-group has-feedback">
        <input id="composeText" type="text" class="form-control"
name="searchText" placeholder="Search People">
        <span class="glyphicon glyphicon-search form-control-
feedback"></span>
      </div>
    </div>
  </div>
</div>
<!-- ComposeBox End -->

  <!-- sideBar -->
  <div class="row compose-sideBar">
    <div class="row sideBar-body">
      <div class="col-sm-3 col-xs-3 sideBar-avatar">
        <div class="avatar-icon">
          
        </div>
      </div>
      <div class="col-sm-9 col-xs-9 sideBar-main">
        <div class="row">
          <div class="col-sm-8 col-xs-8 sideBar-name">
            <span class="name-meta">Allice
```

```
        </span>
      </div>
      <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
        <span class="time-meta pull-right">18:18
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      </div>
    </div>
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</div>
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<div class="row sideBar-body">
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    </div>
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      </span>
      </div>
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        <span class="time-meta pull-right">18:18
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</div>
```



```
        </div>
    </div>
</div>
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        <div class="avatar-icon">
            
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                <span class="name-meta">Alice
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```

```
<div class="avatar-icon">
  
</div>
</div>
<div class="col-sm-9 col-xs-9 sideBar-main">
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    <div class="col-sm-8 col-xs-8 sideBar-name">
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    <div class="row">
      <div class="col-sm-8 col-xs-8 sideBar-name">
        <span class="name-meta">Alicce
      </span>
      </div>
      <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
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      </div>
    </div>
  </div>
</div>
<div class="row sideBar-body">
  <div class="col-sm-3 col-xs-3 sideBar-avatar">
    <div class="avatar-icon">
      
    </div>
  </div>
  <div class="col-sm-9 col-xs-9 sideBar-main">
    <div class="row">
```

```

    <div class="col-sm-8 col-xs-8 sideBar-name">
      <span class="name-meta">Alice
    </span>
    </div>
    <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
      <span class="time-meta pull-right">18:18
    </span>
    </div>
  </div>
</div>
<div class="row sideBar-body">
  <div class="col-sm-3 col-xs-3 sideBar-avatar">
    <div class="avatar-icon">
      
    </div>
  </div>
  <div class="col-sm-9 col-xs-9 sideBar-main">
    <div class="row">
      <div class="col-sm-8 col-xs-8 sideBar-name">
        <span class="name-meta">Alice
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      </div>
      <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
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  </div>
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<div class="row sideBar-body">
  <div class="col-sm-3 col-xs-3 sideBar-avatar">
    <div class="avatar-icon">
      
    </div>
  </div>
  <div class="col-sm-9 col-xs-9 sideBar-main">
    <div class="row">
      <div class="col-sm-8 col-xs-8 sideBar-name">
        <span class="name-meta">Alice
      </span>
      </div>
      <div class="col-sm-4 col-xs-4 pull-right sideBar-time">
        <span class="time-meta pull-right">18:18
      </span>
      </div>
    </div>
  </div>
</div>

```

```
        </span>
      </div>
    </div>
  </div>
</div>
</div>
</div>
<!-- Sidebar End -->
</div>
```

```
<!-- New Message Sidebar End -->
```

```
<!-- Conversation Start -->
<div class="col-sm-8 conversation">
  <!-- Heading -->
  <div class="row heading">
    <div class="col-sm-2 col-md-1 col-xs-3 heading-avatar">
      <div class="heading-avatar-icon">
        
      </div>
    </div>
    <div class="col-sm-8 col-xs-7 heading-name">
      <a class="heading-name-meta">Allice
      </a>
      <span class="heading-online">Online</span>
    </div>
    <div class="col-sm-1 col-xs-1 heading-dot pull-right">
      <i class="fa fa-ellipsis-v fa-2x pull-right" aria-hidden="true"></i>
    </div>
  </div>
  <!-- Heading End -->
```

```
<!-- Message Box -->
<div class="row message" id="conversation">

  <div class="row message-previous">
    <div class="col-sm-12 previous">
      <a onclick="previous(this)" id="Allice28" name="20">
        Show Previous Message!
      </a>
    </div>
  </div>
</div>
```

```

<div class="row message-body">
  <div class="col-sm-12 message-main-receiver">
    <div class="receiver">
      <div class="message-text">
        Hyy, Its Awesome..!
      </div>
      <span class="message-time pull-right">
        Sun
      </span>
    </div>
  </div>
</div>

```

```

<div class="row message-body">
  <div class="col-sm-12 message-main-sender">
    <div class="sender">
      <div class="message-text">
        Thanks n I know its awesome...!
      </div>
      <span class="message-time pull-right">
        Sun
      </span>
    </div>
  </div>
</div>
<!-- Message Box End -->

```

```

<!-- Reply Box -->
<div class="row reply">
  <div class="col-sm-1 col-xs-1 reply-emojis">
    <i class="fa fa-smile-o fa-2x"></i>
  </div>
  <div class="col-sm-9 col-xs-9 reply-main">
    <textarea class="form-control" rows="1"
id="comment"></textarea>
  </div>
  <div class="col-sm-1 col-xs-1 reply-recording">
    <i class="fa fa-microphone fa-2x" aria-hidden="true"></i>
  </div>
  <div class="col-sm-1 col-xs-1 reply-send">
    <i class="fa fa-send fa-2x" aria-hidden="true"></i>
  </div>
</div>

```

```
        <!-- Reply Box End -->
    </div>
    <!-- Conversation End -->
</div>
<!-- App One End -->
</div>

<!-- App End -->
</body>

</html>
```

CSS:

```
html,
body,
div,
span {
    height: 100%;
    width: 100%;
    overflow: hidden;
    padding: 0;
    margin: 0;
    box-sizing: border-box;
}

body {
    background: url("http://shurl.esy.es/y") no-repeat fixed center;
    background-size: cover;
}

.fa-2x {
    font-size: 1.5em;
}

.app {
    position: relative;
    overflow: hidden;
    top: 19px;
    height: calc(100% - 38px);
    margin: auto;
    padding: 0;
    box-shadow: 0 1px 1px 0 rgba(0, 0, 0, .06), 0 2px 5px 0 rgba(0, 0, 0, .2);
}
```

```
.app-one {
  background-color: #f7f7f7;
  height: 100%;
  overflow: hidden;
  margin: 0;
  padding: 0;
  box-shadow: 0 1px 1px 0 rgba(0, 0, 0, .06), 0 2px 5px 0 rgba(0, 0, 0, .2);
}
```

```
.side {
  padding: 0;
  margin: 0;
  height: 100%;
}
```

```
.side-one {
  padding: 0;
  margin: 0;
  height: 100%;
  width: 100%;
  z-index: 1;
  position: relative;
  display: block;
  top: 0;
}
```

```
.side-two {
  padding: 0;
  margin: 0;
  height: 100%;
  width: 100%;
  z-index: 2;
  position: relative;
  top: -100%;
  left: -100%;
  -webkit-transition: left 0.3s ease;
  transition: left 0.3s ease;
}
```

```
.heading {
  padding: 10px 16px 10px 15px;
  margin: 0;
  height: 60px;
}
```

```
width: 100%;  
background-color: #eee;  
z-index: 1000;  
}
```

```
.heading-avatar {  
padding: 0;  
cursor: pointer;  
  
}
```

```
.heading-avatar-icon img {  
border-radius: 50%;  
height: 40px;  
width: 40px;  
}
```

```
.heading-name {  
padding: 0 !important;  
cursor: pointer;  
}
```

```
.heading-name-meta {  
font-weight: 700;  
font-size: 100%;  
padding: 5px;  
padding-bottom: 0;  
text-align: left;  
text-overflow: ellipsis;  
white-space: nowrap;  
color: #000;  
display: block;  
}
```

```
.heading-online {  
display: none;  
padding: 0 5px;  
font-size: 12px;  
color: #93918f;  
}
```

```
.heading-compose {  
padding: 0;  
}
```

```
.heading-compose i {
```



```
text-align: center;
padding: 5px;
color: #93918f;
cursor: pointer;
}

.heading-dot {
padding: 0;
margin-left: 10px;
}

.heading-dot i {
text-align: right;
padding: 5px;
color: #93918f;
cursor: pointer;
}

.searchBox {
padding: 0 !important;
margin: 0 !important;
height: 60px;
width: 100%;
}

.searchBox-inner {
height: 100%;
width: 100%;
padding: 10px !important;
background-color: #fbfbfb;
}

/*#searchBox-inner input {
box-shadow: none;
}*/

.searchBox-inner input:focus {
outline: none;
border: none;
box-shadow: none;
}

.sideBar {
```

```
padding: 0 !important;
margin: 0 !important;
background-color: #fff;
overflow-y: auto;
border: 1px solid #f7f7f7;
height: calc(100% - 120px);
}
```

```
.sideBar-body {
  position: relative;
  padding: 10px !important;
  border-bottom: 1px solid #f7f7f7;
  height: 72px;
  margin: 0 !important;
  cursor: pointer;
}
```

```
.sideBar-body:hover {
  background-color: #f2f2f2;
}
```

```
.sideBar-avatar {
  text-align: center;
  padding: 0 !important;
}
```

```
.avatar-icon img {
  border-radius: 50%;
  height: 49px;
  width: 49px;
}
```

```
.sideBar-main {
  padding: 0 !important;
}
```

```
.sideBar-main .row {
  padding: 0 !important;
  margin: 0 !important;
}
```

```
.sideBar-name {
  padding: 10px !important;
}
```

```
.name-meta {  
  font-size: 100%;  
  padding: 1% !important;  
  text-align: left;  
  text-overflow: ellipsis;  
  white-space: nowrap;  
  color: #000;  
}
```

```
.sideBar-time {  
  padding: 10px !important;  
}
```

```
.time-meta {  
  text-align: right;  
  font-size: 12px;  
  padding: 1% !important;  
  color: rgba(0, 0, 0, .4);  
  vertical-align: baseline;  
}
```

```
/*New Message*/
```

```
.newMessage {  
  padding: 0 !important;  
  margin: 0 !important;  
  height: 100%;  
  position: relative;  
  left: -100%;  
}  
.newMessage-heading {  
  padding: 10px 16px 10px 15px !important;  
  margin: 0 !important;  
  height: 100px;  
  width: 100%;  
  background-color: #00bfa5;  
  z-index: 1001;  
}
```

```
.newMessage-main {  
  padding: 10px 16px 0 15px !important;  
  margin: 0 !important;  
  height: 60px;
```

```
margin-top: 30px !important;
width: 100%;
z-index: 1001;
color: #fff;
}

.newMessage-title {
  font-size: 18px;
  font-weight: 700;
  padding: 10px 5px !important;
}

.newMessage-back {
  text-align: center;
  vertical-align: baseline;
  padding: 12px 5px !important;
  display: block;
  cursor: pointer;
}

.newMessage-back i {
  margin: auto !important;
}

.composeBox {
  padding: 0 !important;
  margin: 0 !important;
  height: 60px;
  width: 100%;
}

.composeBox-inner {
  height: 100%;
  width: 100%;
  padding: 10px !important;
  background-color: #fbfbfb;
}

.composeBox-inner input:focus {
  outline: none;
  border: none;
  box-shadow: none;
}

.compose-sideBar {
  padding: 0 !important;
```

```
margin: 0 !important;
background-color: #fff;
overflow-y: auto;
border: 1px solid #f7f7f7;
height: calc(100% - 160px);
}
```

```
/*Conversation*/
```

```
.conversation {
padding: 0 !important;
margin: 0 !important;
height: 100%;
/*width: 100%;*/
border-left: 1px solid rgba(0, 0, 0, .08);
/*overflow-y: auto;*/
}
```

```
.message {
padding: 0 !important;
margin: 0 !important;
background: url("w.jpg") no-repeat fixed center;
background-size: cover;
overflow-y: auto;
border: 1px solid #f7f7f7;
height: calc(100% - 120px);
}
```

```
.message-previous {
margin : 0 !important;
padding: 0 !important;
height: auto;
width: 100%;
}
```

```
.previous {
font-size: 15px;
text-align: center;
padding: 10px !important;
cursor: pointer;
}
```

```
.previous a {
text-decoration: none;
font-weight: 700;
}
```

```
.message-body {
  margin: 0 !important;
  padding: 0 !important;
  width: auto;
  height: auto;
}

.message-main-receiver {
  /*padding: 10px 20px;*/
  max-width: 60%;
}

.message-main-sender {
  padding: 3px 20px !important;
  margin-left: 40% !important;
  max-width: 60%;
}

.message-text {
  margin: 0 !important;
  padding: 5px !important;
  word-wrap: break-word;
  font-weight: 200;
  font-size: 14px;
  padding-bottom: 0 !important;
}

.message-time {
  margin: 0 !important;
  margin-left: 50px !important;
  font-size: 12px;
  text-align: right;
  color: #9a9a9a;
}

.receiver {
  width: auto !important;
  padding: 4px 10px 7px !important;
  border-radius: 10px 10px 10px 0;
  background: #ffffff;
  font-size: 12px;
  text-shadow: 0 1px 1px rgba(0, 0, 0, .2);
}
```

```
word-wrap: break-word;
display: inline-block;
}
```

```
.sender {
float: right;
width: auto !important;
background: #dcf8c6;
border-radius: 10px 10px 0 10px;
padding: 4px 10px 7px !important;
font-size: 12px;
text-shadow: 0 1px 1px rgba(0, 0, 0, .2);
display: inline-block;
word-wrap: break-word;
}
```

```
/*Reply*/
```

```
.reply {
height: 60px;
width: 100%;
background-color: #f5f1ee;
padding: 10px 5px 10px 5px !important;
margin: 0 !important;
z-index: 1000;
}
```

```
.reply-emojis {
padding: 5px !important;
}
```

```
.reply-emojis i {
text-align: center;
padding: 5px 5px 5px 5px !important;
color: #93918f;
cursor: pointer;
}
```

```
.reply-recording {
padding: 5px !important;
}
```

```
.reply-recording i {
```

```
text-align: center;
padding: 5px !important;
color: #93918f;
cursor: pointer;
}

.reply-send {
padding: 5px !important;
}

.reply-send i {
text-align: center;
padding: 5px !important;
color: #93918f;
cursor: pointer;
}

.reply-main {
padding: 2px 5px !important;
}

.reply-main textarea {
width: 100%;
resize: none;
overflow: hidden;
padding: 5px !important;
outline: none;
border: none;
text-indent: 5px;
box-shadow: none;
height: 100%;
font-size: 16px;
}

.reply-main textarea:focus {
outline: none;
border: none;
text-indent: 5px;
box-shadow: none;
}

@media screen and (max-width: 700px) {
.app {
top: 0;
```



```
    height: 100%;
}
.heading {
    height: 70px;
    background-color: #009688;
}
.fa-2x {
    font-size: 2.3em !important;
}
.heading-avatar {
    padding: 0 !important;
}
.heading-avatar-icon img {
    height: 50px;
    width: 50px;
}
.heading-compose {
    padding: 5px !important;
}
.heading-compose i {
    color: #fff;
    cursor: pointer;
}
.heading-dot {
    padding: 5px !important;
    margin-left: 10px !important;
}
.heading-dot i {
    color: #fff;
    cursor: pointer;
}
.sideBar {
    height: calc(100% - 130px);
}
.sideBar-body {
    height: 80px;
}
.sideBar-avatar {
    text-align: left;
    padding: 0 8px !important;
}
.avatar-icon img {
    height: 55px;
    width: 55px;
```

```
}
.sidebar-main {
  padding: 0 !important;
}
.sidebar-main .row {
  padding: 0 !important;
  margin: 0 !important;
}
.sidebar-name {
  padding: 10px 5px !important;
}
.name-meta {
  font-size: 16px;
  padding: 5% !important;
}
.sidebar-time {
  padding: 10px !important;
}
.time-meta {
  text-align: right;
  font-size: 14px;
  padding: 4% !important;
  color: rgba(0, 0, 0, .4);
  vertical-align: baseline;
}
/*Conversation*/
.conversation {
  padding: 0 !important;
  margin: 0 !important;
  height: 100%;
  /*width: 100%;*/
  border-left: 1px solid rgba(0, 0, 0, .08);
  /*overflow-y: auto;*/
}
.message {
  height: calc(100% - 140px);
}
.reply {
  height: 70px;
}
.reply-emojis {
  padding: 5px 0 !important;
}
.reply-emojis i {
```

```

padding: 5px 2px !important;
font-size: 1.8em !important;
}
.reply-main {
padding: 2px 8px !important;
}
.reply-main textarea {
padding: 8px !important;
font-size: 18px;
}
.reply-recording {
padding: 5px 0 !important;
}
.reply-recording i {
padding: 5px 0 !important;
font-size: 1.8em !important;
}
.reply-send {
padding: 5px 0 !important;
}
.reply-send i {
padding: 5px 2px 5px 0 !important;
font-size: 1.8em !important;
}
}
}

```

JS:

```

$(".heading-compose").click(function() {
    $(".side-two").css({
        "left": "0"
    });
});

$(".newMessage-back").click(function() {
    $(".side-two").css({
        "left": "-100%"
    });
});

```

TASK 3

```
#include<iostream>
```

```
#include<fstream>
#include<cctype>
#include<iomanip>
using namespace std;
```

```
class account
{
    int acno;
    char name[50];
    int deposit;
    char type;
public:
    void create_account();
    void show_account() const;
    void modify();
    void dep(int);
    void draw(int);
    void report() const;
    int retacno() const;
    int retdeposit() const;
    char rettype() const;
};
```

```
void account::create_account()
{
    cout<<"\nEnter The account No. :";
    cin>>acno;
    cout<<"\nEnter The Name of The account Holder : ";
    cin.ignore();
    cin.getline(name,50);
    cout<<"\nEnter Type of The account (C/S) : ";
    cin>>type;
    type=toupper(type);
    cout<<"\nEnter The Initial amount(>=500 for Saving and >=1000 for
current ) : ";
    cin>>deposit;
    cout<<"\n\n\nAccount Created..";
}
```

```
void account::show_account() const
{
    cout<<"\nAccount No. : "<<acno;
```

```

        cout<<"\nAccount Holder Name : ";
        cout<<name;
        cout<<"\nType of Account : "<<type;
        cout<<"\nBalance amount : "<<deposit;
    }

```

```

void account::modify()
{
    cout<<"\nAccount No. : "<<acno;
    cout<<"\nModify Account Holder Name : ";
    cin.ignore();
    cin.getline(name,50);
    cout<<"\nModify Type of Account : ";
    cin>>type;
    type=toupper(type);
    cout<<"\nModify Balance amount : ";
    cin>>deposit;
}

```

```

void account::dep(int x)
{
    deposit+=x;
}

```

```

void account::draw(int x)
{
    deposit-=x;
}

```

```

void account::report() const
{
    cout<<acno<<setw(10)<<" "<<name<<setw(10)<<"
"<<type<<setw(6)<<deposit<<endl;
}

```

```

int account::retacno() const
{
    return acno;
}

```

```

int account::retdeposit() const

```

```
{
    return deposit;
}
```

```
char account::rettype() const
{
    return type;
}
```

```
void write_account();
void display_sp(int);
void modify_account(int);
void delete_account(int);
void display_all();
void deposit_withdraw(int, int);
void intro();
```

```
int main()
{
    char ch;
    int num;
    intro();
    do
    {
        system("cls");
        cout<<"\n\n\n\tMAIN MENU";
        cout<<"\n\n\t01. NEW ACCOUNT";
        cout<<"\n\n\t02. DEPOSIT AMOUNT";
        cout<<"\n\n\t03. WITHDRAW AMOUNT";
        cout<<"\n\n\t04. BALANCE ENQUIRY";
        cout<<"\n\n\t05. ALL ACCOUNT HOLDER LIST";
        cout<<"\n\n\t06. CLOSE AN ACCOUNT";
        cout<<"\n\n\t07. MODIFY AN ACCOUNT";
        cout<<"\n\n\t08. EXIT";
        cout<<"\n\n\tSelect Your Option (1-8) ";
        cin>>ch;
        system("cls");
        switch(ch)
        {
            case '1':
```

```

        write_account();
        break;
    case '2':
        cout<<"\n\n\tEnter The account No. : "; cin>>num;
        deposit_withdraw(num, 1);
        break;
    case '3':
        cout<<"\n\n\tEnter The account No. : "; cin>>num;
        deposit_withdraw(num, 2);
        break;
    case '4':
        cout<<"\n\n\tEnter The account No. : "; cin>>num;
        display_sp(num);
        break;
    case '5':
        display_all();
        break;
    case '6':
        cout<<"\n\n\tEnter The account No. : "; cin>>num;
        delete_account(num);
        break;
    case '7':
        cout<<"\n\n\tEnter The account No. : "; cin>>num;
        modify_account(num);
        break;
    case '8':
        cout<<"\n\n\tThanks for using bank managemnt system";
        break;
    default :cout<<"\a";
}
cin.ignore();
cin.get();
}while(ch!='8');
return 0;
}

```

```

void write_account()
{
    account ac;
    ofstream outFile;
    outFile.open("account.dat",ios::binary|ios::app);

```

```

        ac.create_account();
        outFile.write(reinterpret_cast<char *> (&ac), sizeof(account));
        outFile.close();
    }

```

```

void display_sp(int n)
{
    account ac;
    bool flag=false;
    ifstream inFile;
    inFile.open("account.dat",ios::binary);
    if(!inFile)
    {
        cout<<"File could not be open !! Press any Key...";
        return;
    }
    cout<<"\nBALANCE DETAILS\n";

    while(inFile.read(reinterpret_cast<char *> (&ac), sizeof(account)))
    {
        if(ac.retacno()==n)
        {
            ac.show_account();
            flag=true;
        }
    }
    inFile.close();
    if(flag==false)
        cout<<"\n\nAccount number does not exist";
}

```

```

void modify_account(int n)
{
    bool found=false;
    account ac;
    fstream File;
    File.open("account.dat",ios::binary|ios::in|ios::out);
    if(!File)
    {
        cout<<"File could not be open !! Press any Key...";
    }
}

```



```

        return;
    }
    while(!File.eof() && found==false)
    {
        File.read(reinterpret_cast<char *> (&ac), sizeof(account));
        if(ac.retacno()==n)
        {
            ac.show_account();
            cout<<"\n\nEnter The New Details of account"<<endl;
            ac.modify();
            int pos=(-1)*static_cast<int>(sizeof(account));
            File.seekp(pos,ios::cur);
            File.write(reinterpret_cast<char *> (&ac),
sizeof(account));
            cout<<"\n\n\t Record Updated";
            found=true;
        }
    }
    File.close();
    if(found==false)
        cout<<"\n\n Record Not Found ";
}

```

```

void delete_account(int n)
{
    account ac;
    ifstream inFile;
    ofstream outFile;
    inFile.open("account.dat",ios::binary);
    if(!inFile)
    {
        cout<<"File could not be open !! Press any Key...";
        return;
    }
    outFile.open("Temp.dat",ios::binary);
    inFile.seekg(0,ios::beg);
    while(inFile.read(reinterpret_cast<char *> (&ac), sizeof(account)))
    {
        if(ac.retacno()!=n)
        {
            outFile.write(reinterpret_cast<char *> (&ac),
sizeof(account));

```

```

    }
}
inFile.close();
outFile.close();
remove("account.dat");
rename("Temp.dat","account.dat");
cout<<"\n\n\tRecord Deleted ..";
}

```

```

void display_all()
{
    account ac;
    ifstream inFile;
    inFile.open("account.dat",ios::binary);
    if(!inFile)
    {
        cout<<"File could not be open !! Press any Key...";
        return;
    }
    cout<<"\n\n\t\tACCOUNT HOLDER LIST\n\n";
    cout<<"=====
=====\\n";
    cout<<"A/c no.    NAME        Type  Balance\\n";
    cout<<"=====
=====\\n";
    while(inFile.read(reinterpret_cast<char *> (&ac), sizeof(account)))
    {
        ac.report();
    }
    inFile.close();
}

```

```

void deposit_withdraw(int n, int option)
{
    int amt;
    bool found=false;
    account ac;
    fstream File;
    File.open("account.dat", ios::binary|ios::in|ios::out);
    if(!File)
    {
        cout<<"File could not be open !! Press any Key...";
    }
}

```

```

        return;
    }
    while(!File.eof() && found==false)
    {
        File.read(reinterpret_cast<char *> (&ac), sizeof(account));
        if(ac.retacno()==n)
        {
            ac.show_account();
            if(option==1)
            {
                cout<<"\n\n\tTO DEPOSITE AMOUNT ";
                cout<<"\n\nEnter The amount to be deposited";
                cin>>amt;
                ac.dep(amt);
            }
            if(option==2)
            {
                cout<<"\n\n\tTO WITHDRAW AMOUNT ";
                cout<<"\n\nEnter The amount to be withdraw";
                cin>>amt;
                int bal=ac.retdeposit()-amt;
                if((bal<500 && ac.rettype()=='S') || (bal<1000 &&
ac.rettype()=='C'))
                    cout<<"Insufficiency balance";
                else
                    ac.draw(amt);
            }
            int pos=(-1)*static_cast<int>(sizeof(ac));
            File.seekp(pos,ios::cur);
            File.write(reinterpret_cast<char *> (&ac),
sizeof(account));
            cout<<"\n\n\t Record Updated";
            found=true;
        }
    }
    File.close();
    if(found==false)
        cout<<"\n\n Record Not Found ";
}

```

```

void intro()
{

```

```
cout<<"\n\n\n\t BANK MANAGEMENT SYSTEM";

cin.get();
}
```

MAIN MENU

01. NEW ACCOUNT

02. DEPOSIT AMOUNT

03. WITHDRAW AMOUNT

04. BALANCE ENQUIRY

05. ALL ACCOUNT HOLDER LIST

06. CLOSE AN ACCOUNT

07. MODIFY AN ACCOUNT

08. EXIT

Select Your Option (1-8)

Enter The account No. :56564

Enter The Name of The account Holder : Diksha

Enter Type of The account (C/S) : S

Enter The Initial amount(>=500 for Saving and >=1000 for current) : 5000

Account Created..