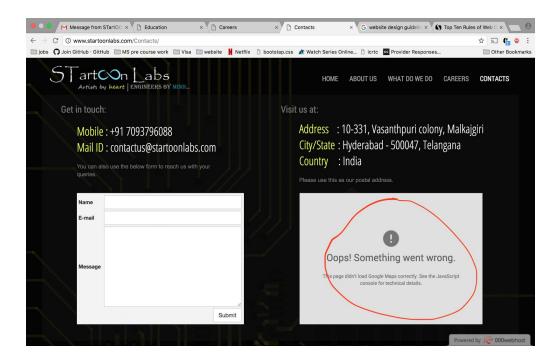
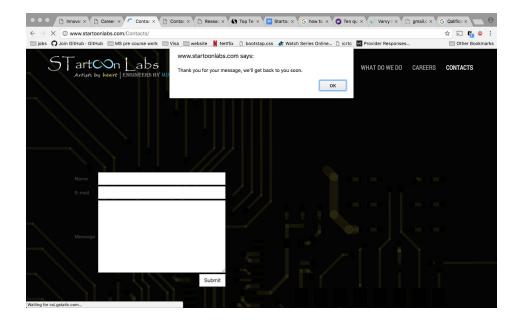
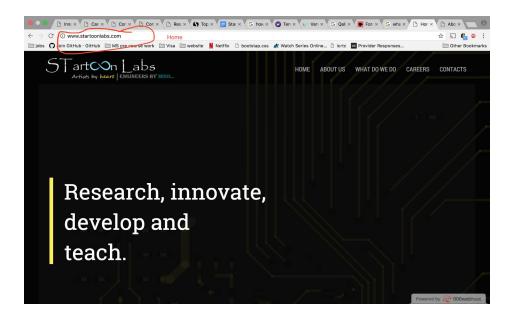
- 1) List down top 5 features of the website that do not follow web design guidelines.
 - ☐ A good website should not contain errors- In the contacts section, google maps is not loaded

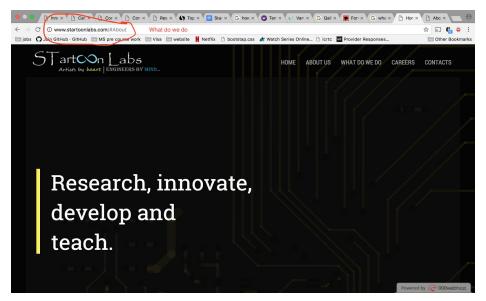


☐ Form is not validated in Contacts section. The form is accepting corrupted data. Example: accepted "hiee" as input for email.

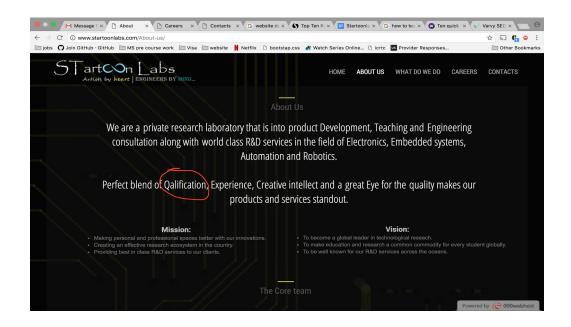


☐ Unnecessary usage of a link- "Home" and "What do we do" sections navigate to the same page.





☐ Website content should be correct and neat- There is a spelling mistake in About us section. Qualification is misspelled as Qalification.



- ☐ Since the Navigation header is fixed, we need not open the links in a new tab .Link for "Careers" opens in a new tab.
- □ Apart from this when the website is checked with Varvy SEO tool, it failed in the following fields -
 - → Security: page is not secure, does not default to HTTPS for all traffic
 - → Accessibility: Not screen reader friendly. Link for skip to main content is not found
 - → Page speed : Browser caching issues, Images not optimized, CSS not minimized. Javascript not minified
 - → If modified since indicators are not found
 - → No sitemaps for users
- 2) List down methods to make website SEO/SEM compatible.

We can make a website SEO compatible by following below guidelines-

- Keywords should be kept at beginning
- Url must be short and concise with important keywords and must be understandable
- Page title should be in reference to the content and also should be kept as short as possible
- Proper file name should be given for pictures as they can be used in promotions
- Have great content that others want to link. Inbound links improves ranking in the search results

Website can be SEM compatible by following below guidelines-

- Use SEM optimized CMS (Content management system) software and plugins to create your websites
- Have good Pay per click and landing page strategies

SEM is over and above SEO. There are other marketing strategies also like social media marketing.

After grading www.startoonlabs.com on website grader it suggested the following fixes

- Implement caching to speed up the loading of frequently used content.
- Remove or defer JavaScript and CSS that interferes with loading above-the-fold content
- Reduce meta descriptions to 155 characters in length and include keywords once
- Add an H1 tag to each page and include a keyword that's relevant to that page
- Purchase an SSL certificate for your Website. SSL certificates protect websites from attacks and give visitors confidence that your site is authentic and trustworthy.
- 3) If given a task to add a login page to the website, what is the procedure to do it (considering UX/UI, front end and back end areas)

New Users - Sign up page Returning Users - Login page

- I would use Bootstrap framework to make my login page responsive
 - ➤ It would have a navbar with navbar-right class to make my Signup and Login buttons right aligned
 - Would use glyphicons to make it more attractive
 - Glyphicon-user class for Signup
 - Glyphicon-log-in class for Log in

<nav class="navbar navbar-inverse">

-
 Sign Up

 Login

 </di>
- Signup.html
 - > Sign up form would ask for Name, email, password, Signup button

On clicking SignUp button it navigates to Signup.php where the input is saved to database.

Signup.php

- > First Database is connected to the server
- > Table with 3 fields Name, Email, Password is created
- > User entered details are inserted into database
- On successful insertion of data, Welcome message is displayed and the user is logged in.

```
> <?php
   $servername = "localhost";
   $username = "username";
   $password = "password";
   $dbname = "myDB";
   // Create connection
   $conn = new mysqli($servername, $username, $password, $dbname);
   // Check connection
   if ($conn->connect_error) {
   die("Connection failed: " . $conn->connect_error);
   }
   // sql to create table
   $sql = "CREATE TABLE Users(
   Name VARCHAR(30) NOT NULL,
   Email VARCHAR(50),
   Password VARCHAR(30)";
   $conn->query($sql)
   //Collecting Signup form data
   if ($_SERVER["REQUEST_METHOD"] == "POST") {
      $name = $ POST['name'];
      $email = $_POST['email'];
      $password=$_POST['password'];
   }
```

```
//Inserting collected data to database

$sql1 = "INSERT INTO Users (Name, Email, Password)

VALUES ('$name', '$email', '$password')";

if ($conn->query($sql) === TRUE) {

   echo "Welcome".$name;

   }

?>
```

Login.html

- > Has fields Email and Password and Checkbox for Remember me
- > On clicking submit, goes to login.php

```
<form class="form-horizontal" action="login.php">
<div class="form-group">
         <a href="color: blue;"><|abe| class="control-label col-sm-2" for="email">Email:</label></a>
         <div class="col-sm-10">
           <input type="email" class="form-control" id="email" name="email">
         </div>
 </div>
 <div class="form-group">
         <label class="control-label col-sm-2" for="pwd">Password:</label>
         <div class="col-sm-10">
           <input type="password" class="form-control" id="pwd" name="pwd">
         </div>
 </div>
 <div class="form-group">
         <div class="col-sm-offset-2 col-sm-10">
           <div class="checkbox">
            <label><input type="checkbox" name="remember"> Remember
     me</label>
          </div>
         </div>
 </div>
 <div class="form-group">
         <div class="col-sm-offset-2 col-sm-10">
          <button type="submit" class="btn btn-default">Submit
         </div>
 </div>
</form>
```

- Login.php
 - > Entered details is checked if it exists in database
 - > If the user details are present in database then the user will be logged in

```
>> session_start();
if(isset($_POST["name"], $_POST["password"]))
    {
        $email = $_POST["email"];
        $password = $_POST["pwd"];

        $result1 = mysql_query("SELECT Email, Password FROM Users WHERE
Email= "".$email." AND Password = "".$pwd.""");

        if(mysql_num_rows($result1) > 0 )
        {
            $_SESSION["logged_in"] = true;
        }
        else
        {
            echo 'The email or password are incorrect!";
        }
}
```