



# Internship 2018 @ Sukalpi Brainworks

## TASK 1 : LET'S TINKER

Reinventing the wheel serves no purpose. When the basics are already prepared, all we need is skills to tinker it and shape it the way we want it. You have received a template of a one-page website as “onepage-template.zip”. You’ll find all the files that have gone into making it when you unzip it. Open the index.html file in your favorite browser and spend some time in experiencing the design. Observe carefully how different elements of the page behave when you hover, move, scroll, click.

Taking this template as the base, we want to you to make certain modifications to it by using your skills. Below you’ll find those modifications section-wise. Once you’re done making these changes, you should save this modified version of the files and compress the folder as “new-onepage-template.zip” and mail it to sushil.sbw@gmail.com.

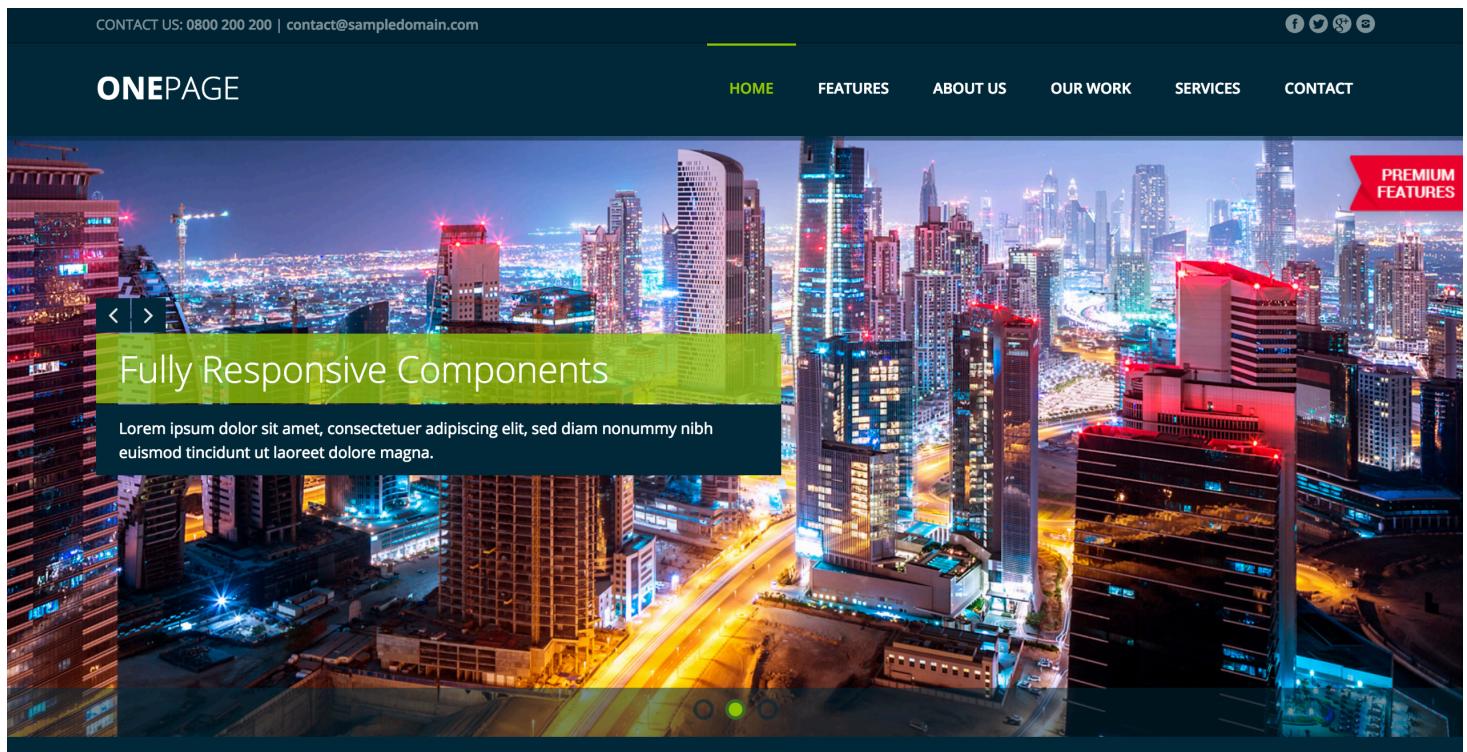
We'll look at the following while evaluating your work:

1. Have you understood the modifications correctly
2. Have you made the modifications correctly
3. Are there some bugs/issues with the page experience because of the modifications you've made
4. How many of the changes are you successfully able to make

All the best!

## SECTION 1

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Modifications to be done:

1. All 3 sliding images in the background should be in Grayscale (Black & White)
2. Add a new 4<sup>th</sup> image to the sliding images, along with a new 4<sup>th</sup> slider dot
3. The “Premium Features” Button at the top right of the screen should always be at the bottom right of the screen.

## SECTION 2

CONTACT US: 0800 200 200 | contact@sampledomain.com

[ONEPAGE](#) [HOME](#) [FEATURES](#) [ABOUT US](#) [OUR WORK](#) [SERVICES](#) [CONTACT](#)

# Amazing Responsive Business Template

PREMIUM FEATURES

LOREM IPSUM DOLOR SIT AMET, CONSECTETUER ADIPISCING ELIT, SED DIAM NONUMMY NIBH EUISMOD TINCIDUNT UT LAOREET DOLORE MAGNA ALIQUAM ERAT VOLUTPAT.

Contact Us



FULLY RESPONSIVE



CLEAN DESIGN



VALID CODE



TOTALLY FREE

LOREM IPSUM DOLOR SIT AMET, CONSECTETUER ADIPISCING ELIT, SED DIAM NONUMMY NIBH EUISMOD TINCIDUNT UT LAOREET DOLORE MAGNA ALIQUAM ERAT VOLUTPAT.

LOREM IPSUM DOLOR SIT AMET, CONSECTETUER ADIPISCING ELIT, SED DIAM NONUMMY NIBH EUISMOD TINCIDUNT UT LAOREET DOLORE MAGNA ALIQUAM ERAT VOLUTPAT ADIPISCING.

LOREM IPSUM DOLOR SIT AMET, CONSECTETUER ADIPISCING ELIT, SED DIAM NONUMMY NIBH EUISMOD TINCIDUNT UT LAOREET DOLORE MAGNA ERAT VOLUTPAT.

LOREM IPSUM DOLOR SIT AMET, CONSECTETUER ADIPISCING ELIT, SED DIAM NONUMMY NIBH EUISMOD TINCIDUNT UT LAOREET DOLORE MAGNA ALIQUAM ERAT VOLUTPAT NONUMMY.

### Modifications to be done:

1. Hovering over “Contact Us” button should change its background colour to light green (same as that in the four icons in the above image)
2. Remove the “Totally Free” icon, heading and text. The other three should now come in the middle.

## SECTION 3

CONTACT US: 0800 200 200 | contact@sampledomain.com

ONEPAGE

HOME FEATURES ABOUT US OUR WORK SERVICES CONTACT

PREMIUM FEATURES



# We are Web Design Heroes

LOREM IPSUM DOLOR SIT AMET, CONSECTETUER ADIPISCING ELIT, SED DIAM NONUMMY NIBH EUISMOD TINCIDUNT UT LAOREET DOLORE MAGNA ALIQUAM ERAT VOLUPAT. UT WISI ENIM AD MINIM VENIAM, QUS NOSTRUD EXERCITATION ULLAMCORPER SUSCIPIT LOBORTIS NISI UT ALIQUIP EX EA COMMODO CONSEQUAT.

NAVIGATION ICONS: A set of three green circular icons with white symbols: a plane, a trophy, and a clock.

Modifications to be done:

1. The image on the left should be changed to Grayscale (Black & White) and hovering over it should change it to the coloured version
2. The three green icons in the above image should smoothly animate to rotate clockwise by 30 degrees on hovering over these icons. On moving the cursor elsewhere, they should rotate back to the original state.

## SECTION 4

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[ONEPAGE](#)

HOME FEATURES ABOUT US OUR WORK SERVICES CONTACT

**OUR WORK**

PREMIUM FEATURES

Web Design Development Social Campaigns Photography

Modifications to be done:

1. Currently, clicking on any of the four sections (Web Design, Development, Social Campaigns, Photography) reveals four images. The Development section should have only the middle two images and left-most and right-most images should be removed. The other three sections (Web Design, Social Campaigns, Photography) should remain untouched.

## SECTION 5

CONTACT US: 0800 200 200 | contact@sampledomain.com

**ONEPAGE**

HOME FEATURES ABOUT US **OUR WORK** SERVICES CONTACT



# WHAT WE DO

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**WE CREATE**  
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.



**WE LOOK TO THE FUTURE**  
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.



**WE FIND A SOLUTION**  
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.

No modifications in this section.

## SECTION 6

CONTACT US: 0800 200 200 | contact@sampledomain.com

**ONEPAGE**

HOME FEATURES ABOUT US OUR WORK SERVICES CONTACT

**LATEST NEWS**

**PREMIUM FEATURES**

**28**  
AUGUST  
2015

**First latest News**  
Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam.

**12**  
JULY  
2015

**Second latest News**  
Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam.

Modifications to be done:

1. Add a “Third latest News” on the right just like the First and the Second. The First and Second should be appropriately resized.

## SECTION 7

CONTACT US: 0800 200 200 | contact@sampledomain.com

**ONEPAGE**

HOME FEATURES ABOUT US OUR WORK SERVICES CONTACT

**CONTACT US**

**PREMIUM FEATURES**



**VISION DESIGN - GRAPHIC ZOO**

**Address:** Gallayova 19, 841 02 Bratislava  
**Country:** Slovakia - Europe  
**E-mail:** info@visiondesign.sk

**SOCIAL**

 Vision Design - graphic zoo  
 Responsee  
 Responsee

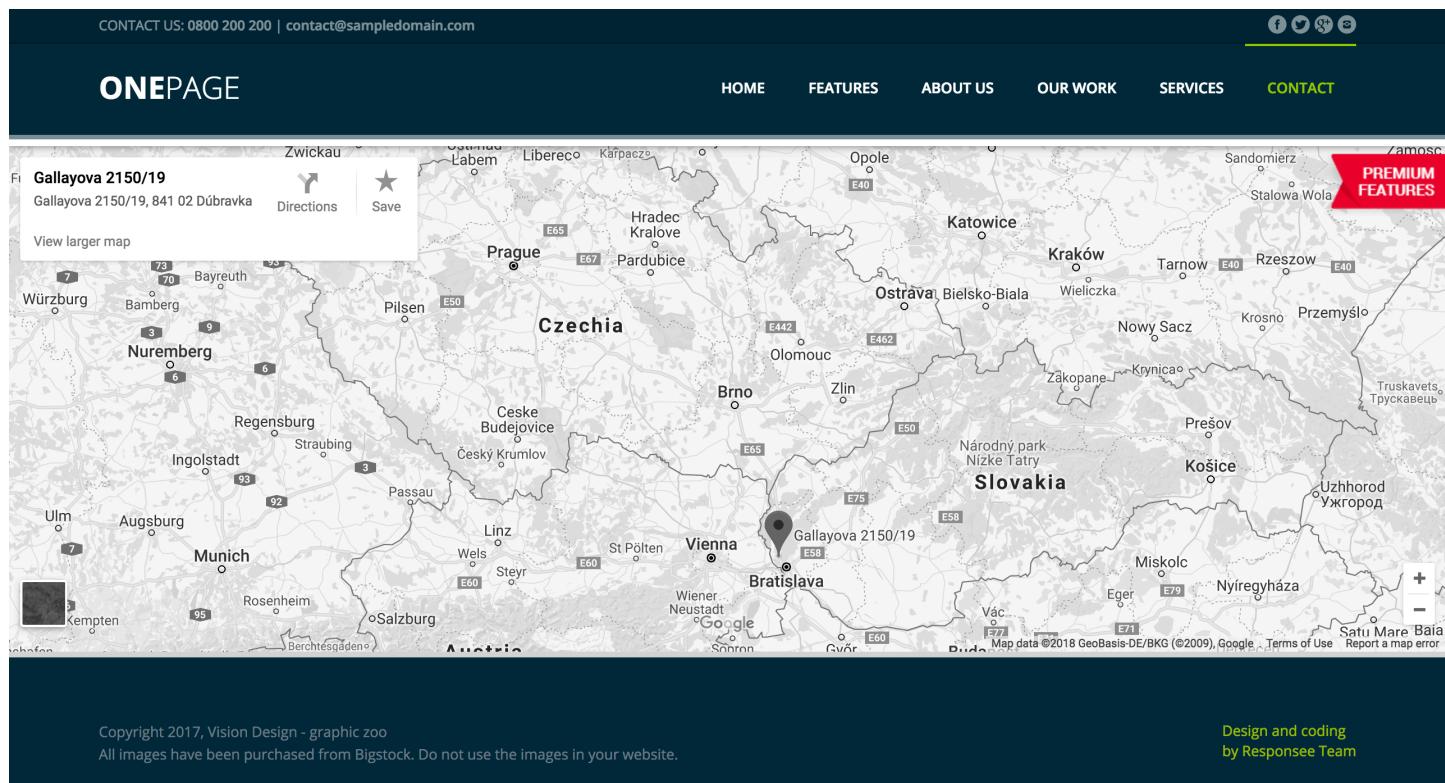
**EXAMPLE CONTACT FORM (DO NOT USE)**

Your e-mail  
Your name  
Your message

Submit Button

No modifications in this section.

## SECTION 8



Modifications to be done:

1. The Map Pin should be located on Varanasi, India
2. The Map should be in colour and not in Grayscale.

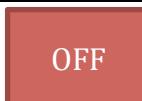
## TASK 2 : LET'S MAKE A MOVING MACHINE

Imagine a moving machine which is made up of several motors. We can add a new motor to the machine whenever we wish to. We have full control over switching any motor on or off as well as increasing or decreasing the speed of each motor. There are two parts (webpages) to the machine we're going to make:

1. One that has the switches and the controls of all the motors
2. One that displays to us the health of the running machine

### **Part 1: One that has the switches and the controls**

This part of the machine will be a simple webpage with the following components:

<b>Motor Number</b>	<b>Turn On Switch</b>	<b>Turn Off Switch</b>	<b>Current Speed</b>	<b>Speed Change</b>
Motor001				
Motor002				
The above are simple names for each motor.	The above are buttons, clicking on which switches on that particular motor.	The above are buttons, clicking on which switches off that particular motor.	The above are simple input boxes that display the current speed of a motor.	The above are buttons to increase or decrease the speed of a motor.

**Add a motor**

This is a button, clicking on which will add a new row to the above table and add a new motor for us with all the functionalities as the above motors.

### **What happens when a user clicks to Switch On a motor?**

1. The motor starts moving at the speed of 5 units.
2. Our machine starts recording the speed of that motor every second and stores it in a database.

### **What happens when a user clicks to Switch Off a motor?**

1. The motor stops moving and the speed becomes 0.
2. Our machine still records the speed (which is 0 now) of that motor every second and stores it in the database.

### **What happens when a user clicks to Increase the speed of a motor?**

1. With each click, the speed of the motor increases by 1 unit.
2. The machine continues to record the current speed of the motor.

### **What happens when a user clicks to Decrease the speed of a motor?**

3. With each click, the speed of the motor decreases by 1 unit.
4. The machine continues to record the current speed of the motor.

## **Also note:**

1. The speed can never be a negative number, the least it can go to is 0.
2. When the motor is in Switched Off mode, increasing /decreasing its speed has not effect on it.

## **What happens when a user clicks to Add a new motor?**

A new row is added with a new motor (its name will be in sequence, e.g. in the above case the next motor will have the name Motor003). This motor has all the functionalities of the previous motors and the machine starts to record its speed as well every second.

## **Part 2: One that displays to us the health of the running machine**

This is a separate page where we get to see the health of our machine. This page should continuously update with values and machine status, as we switch on/off and control the speed of our motors in the other page.

These are the components of this page:

<b>Motor Number</b>	<b>Motor Health</b>	<b>Fix issues</b>
Motor001		<button>Fix the motor</button>
Motor002		<button>Fix the motor</button>

## **What is Motor Health?**

Motor Health light should turn red when a motor speed crosses 10. It remains green when the speed is below or equal to 10.

## **What does “Fix the motor” button do?**

When a user clicks on this button, immediately the speed of that motor becomes the default speed, which is 5 units. This should get reflected in our previous page as well where we were switching on/off and controlling the speed of the motor. The user should be able to use this button only when the Motor Health light is in Red mode.

## **What happens here when a user adds a new motor on the previous page?**

Similar to the previous page, this page should also start displaying the new motor as a new row, along with its Motor Health and its Fix the motor button.

## **Your deliverables for this task are:**

1. Link to the webpage that has Part 1 where there are switches and controls of the motors.
2. Link to the webpage that has Part 2 where the health status of our machine is displayed.

All the best!

## **TASK 3: LET'S LEARN SOMETHING NEW**

In your professional career, the most interesting work you'll do will involve you to quickly learn a new skill and then use it to solve a problem. In a startup especially, this is what is done on a regular basis.

Let's venture into a few new areas which are rapidly gaining popularity. This is to understand how passionately you handle new situations!

### **Facebook chat bots and Twitter API**

A little Googling will tell you that you can build chatbots (programs that can chat like humans) using Facebook's Messenger in not more than 10-15 minutes. There are tutorials and videos available for the same all over.

Here's what we want you to try:

1. Explore Twitter's API, its various features and learn to use its basics (tutorials are available for every little thing)
2. Make a simple page that has a simple input box where I can enter a Twitter Handle and click on a Submit button.
3. Clicking on the submit button should display answers to the following things below it:
  - a. How many followers does that handle have?
  - b. How many tweets has that handle done?
  - c. The latest tweet that has been done by that handle.

Followers	12345
Tweets	645
Latest Tweet	"Text of the tweet"

4. Create a simple Facebook Messenger Chatbot that answers the above three questions for me for a particular Twitter handle. Take this as an example:

When I ask the chatbot, "How many followers does @SrBachchan have?", the chatbot should tell me the number of followers of @SrBachchan. Similarly for any other handle as well.

Of course, the work you did in first three parts of this task will be very handy in building this chatbot as well.

### **Your deliverables for this task are:**

1. Link to the webpage where I can enter a Twitter handle in an input box and get its 3 details on that page.
2. Link to the Facebook account that has the bot you've made and with which I can chat and ask the questions I mentioned above.

All the best!