

REPORT - [IGNOSIA.COM](https://ignosia.com)

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COURSEWORK 3 – WEB APPLICATIONS AND DATABASES - Lecturer: Ameerah Assotally

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Description

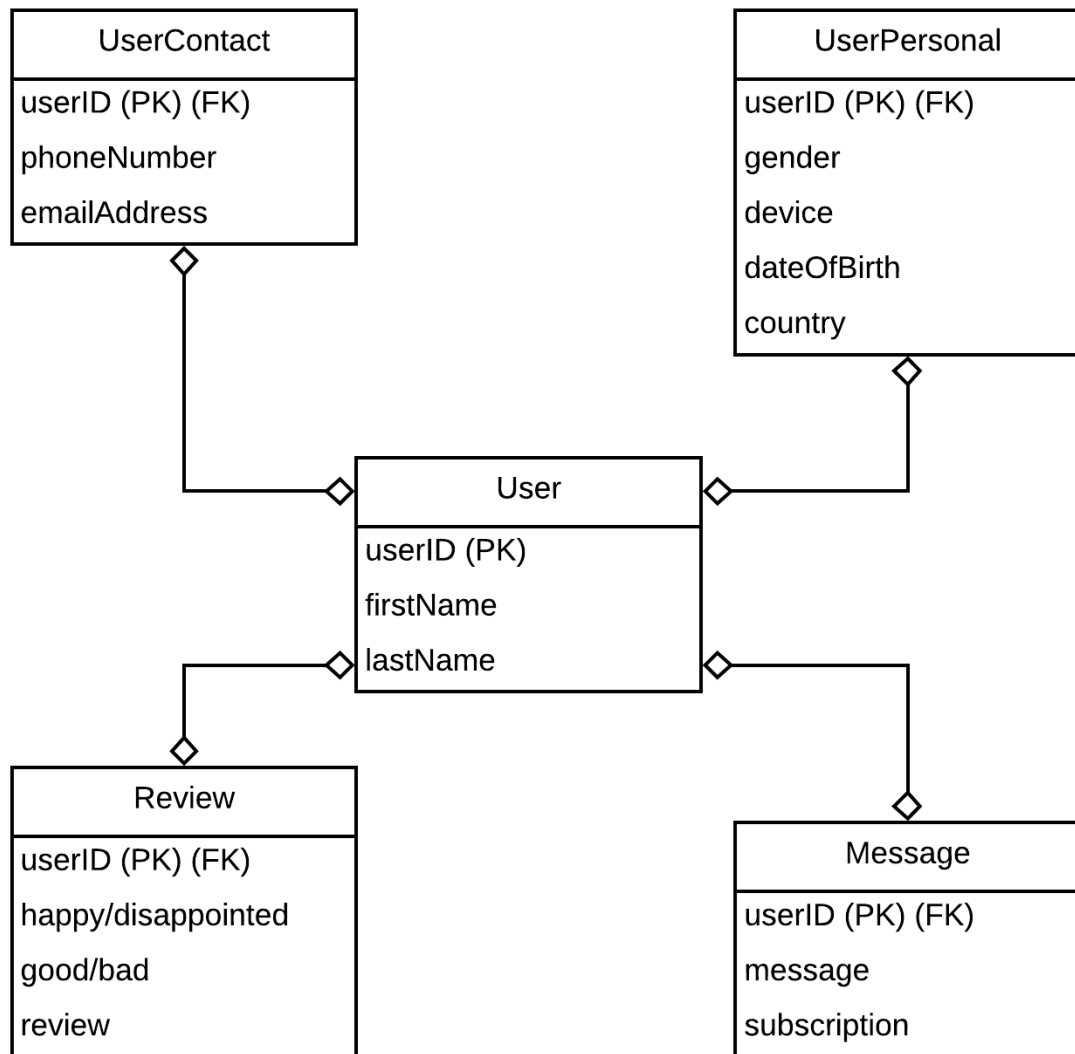
Ignosia.com is a single HTML landing page built with Bootstrap featuring morph text, image slider, lightbox details and contact form. The website features an application called Ignosia for mobile devices. Ignosia.com is built using Bootstrap 4, HTML5, CSS3, JavaScript and very few PHP for some features. Frameworks and toolkits used are Popper, jQuery and Swiper.

Ignosia is a company which will help you achieve your branding, marketing and IT goals in a beautiful and efficient manner. All the services of the company are provided in the app (not built in this project). Ignosia.com is only a marketing and advertising platform for Ignosia Application.

This website will help a user to communicate with our team so that they can inquire about our services. The user will have to insert his personal details, contact details and the message they want to send us. Companies or individuals will be able to get in touch with Ignosia via the contact form of the page so that we can provide them with either of the following services: Branding & Marketing and IT support.

In short, the website will be used to get an overview of what the company, Ignosia provides to its customers and allows users to add reviews and ask questions via the message section (we will revert via e-mail).

Proposed Database Design



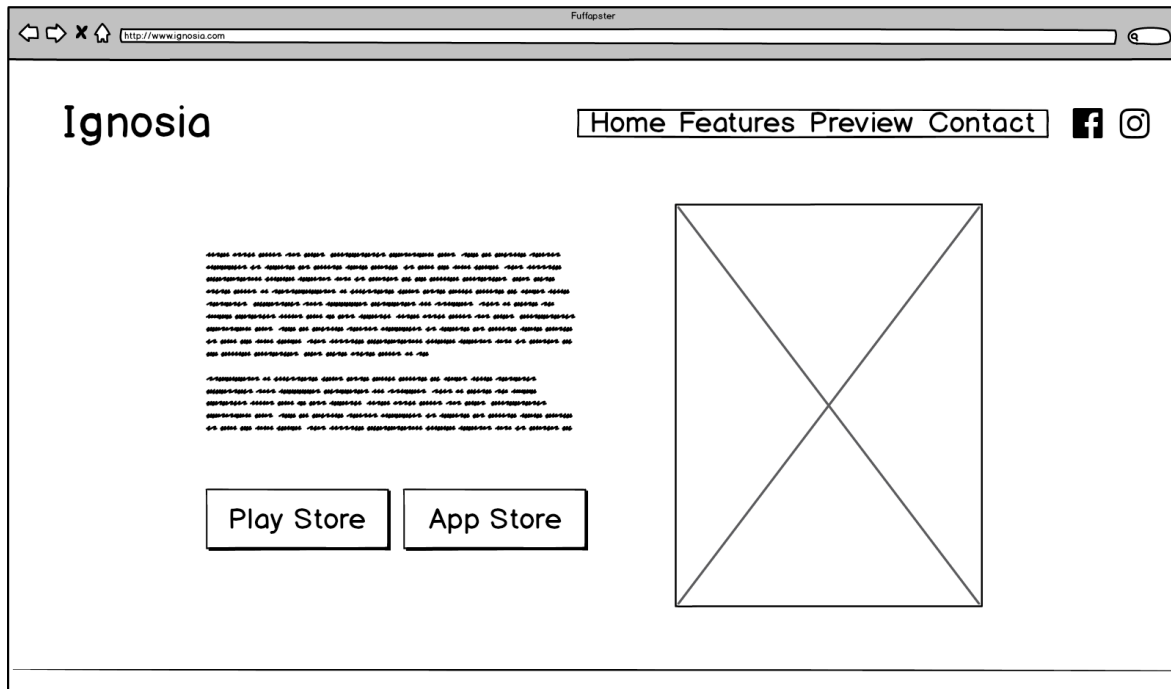
The database will have 5 tables. 3 of them will relate to the user while the other 2 for review and message each.

User	Will store the first and last name of the user
UserContact	Will store the phone number and email address of the user
UserPersonal	Will store the date of birth, gender, country and the device of the user
Review	Will store the review wrote by the user (radio button and in text)
Message	Will store the message and subscription status of the user

Wireframe of the website

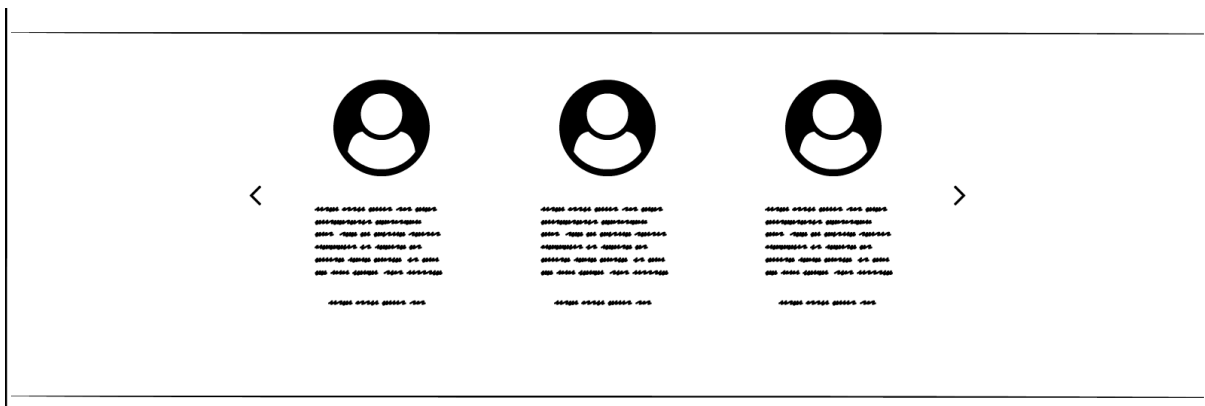
This website is a single page website. However, in the wireframing section, the different sections of the website are separated so that each part can be separately explained.

Section 1



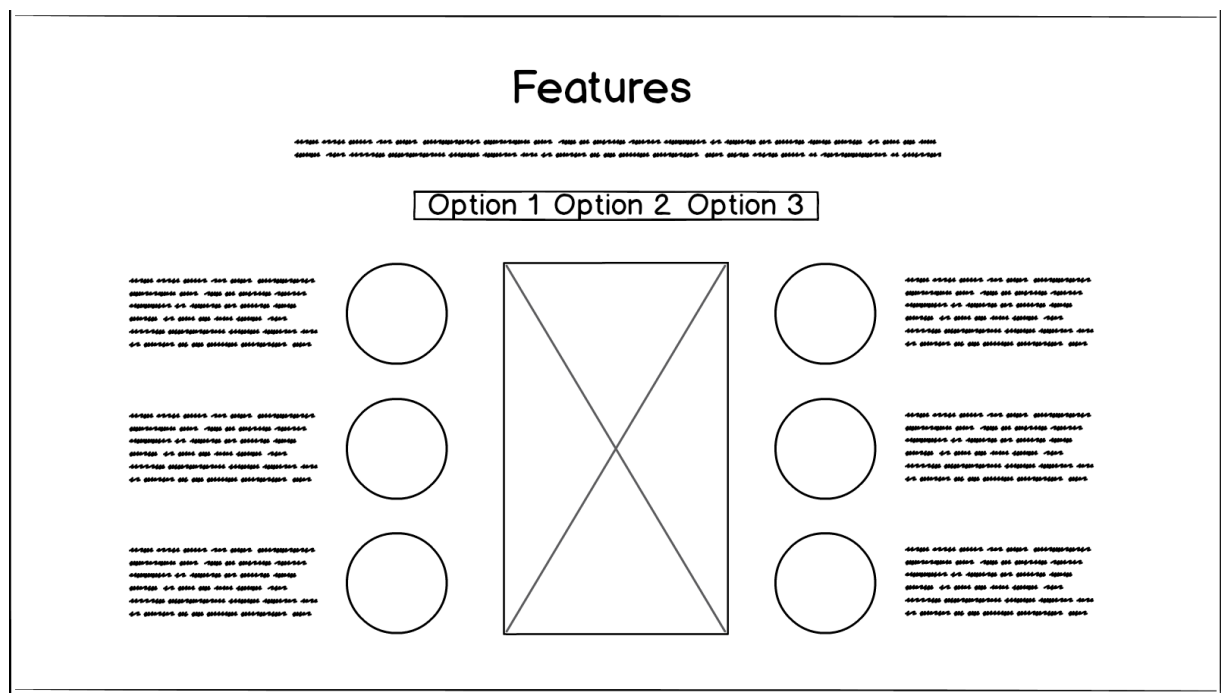
On the navigation bar, there is a logo for the company and navigation links which will scroll to respective sections of the website. In this section, there is an introduction of the company, the services it offers and an image of the application together with 2 buttons which will redirect to the app store of your device for you to download the application.

Section 2



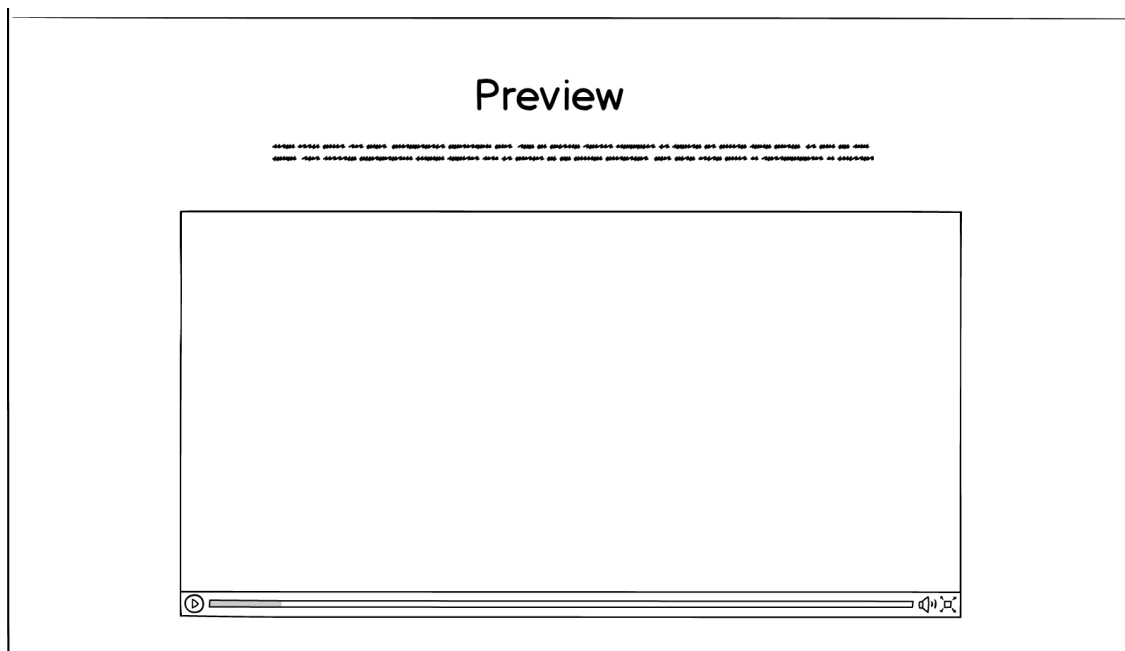
In this section, the staffs of Ignosia will be displayed with their portraits and a quote from them. Their position at Ignosia will also be mentioned. This list is scrollable, which means there will be several staffs listed. Using the arrows on each side of the screen, the user will be able to see other staffs.

Section 3



Here, the features of the website will be listed with an icon of the feature and a brief description of what the mentioned feature does. There will be a large image of the app in the centre of this section. An idea of having 3 different features is considered; one for branding, second for marketing and third for IT support. These 3 parts will be separated using a slider and small navigation bar.

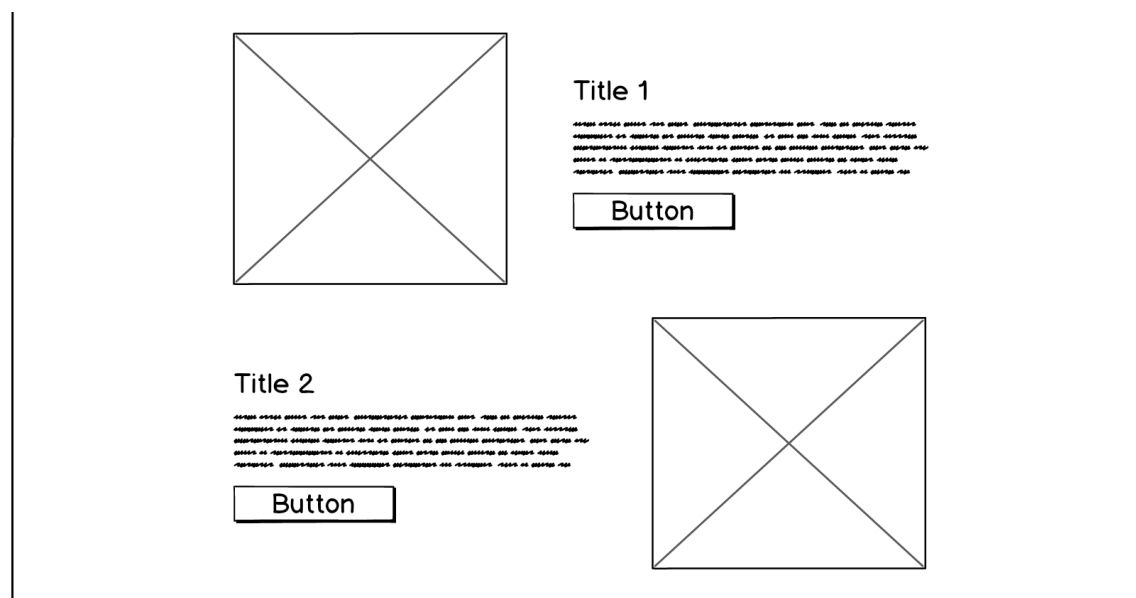
Section 4



On the preview section of the website, there will be a trailer video showing the app in real time and the features it contains.

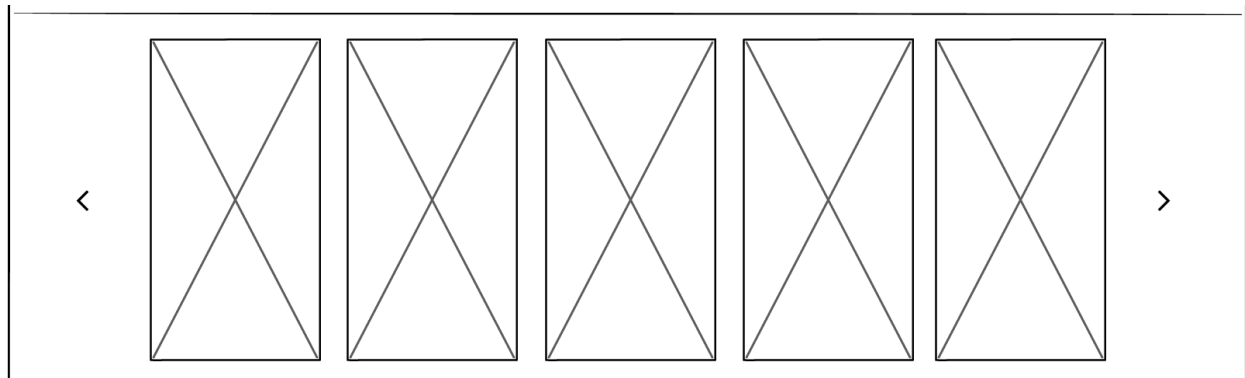
P.s. Video will not be produced in this website building project. The link will be empty. Only the player will be seen with an empty video.

Section 5



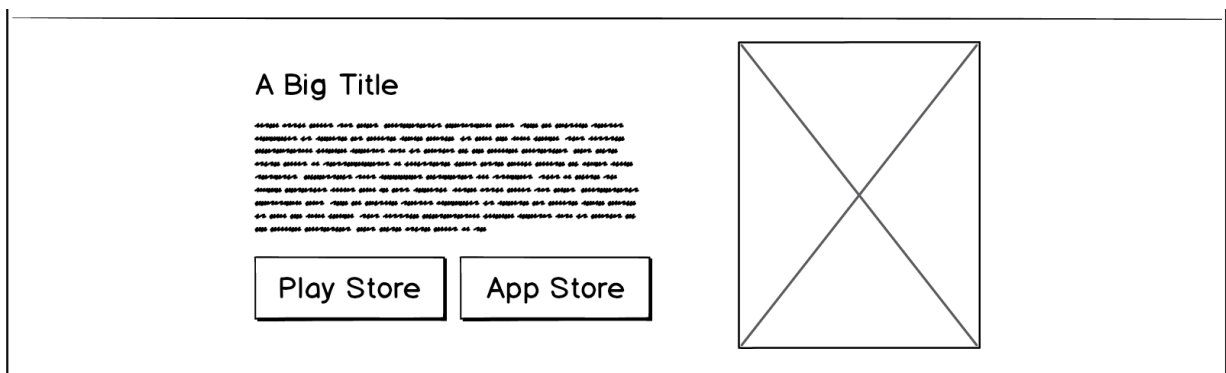
In section 5, the 2 most recommended services are mentioned with a brief but complete description of what Ignosia offers. A button is placed to open a modal which will give a more detailed description of the respective service.

Section 6



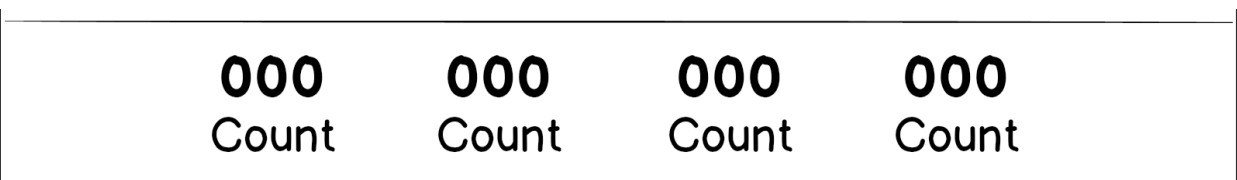
Section 6 will only contain screenshots of the application. The different interesting parts of the application and the main features so that the user can have an idea of what the latter is going to use.

Section 7



This section simply reminds the user of what the application and company is all about. And there are two buttons for the user to respectively click on to download his version for his device.

Section 8



This section will show the amount of reviews noted "Happy", "Good", "Number of users" and "Amount of subscription". This will increase automatically depending on the users' response.

Section 9

CONTACT

First Name

Last Name

Gender

Email Address

Phone Number

Device

Date of Birth

Country

☐ Happy about the application

☐ Disappointed about the application

Review

☐ Good ☐ Bad

Your Message

☐ Check to receive emails about future products

Submit Contact Form

Section 9 is the main section of this website. This part allows a person to insert his personal data, his review and any message/inquiry he has for Ignosia. These data will be saved in tables as mentioned in the 'Database Design' section of this report. Validation will be such that a user cannot add a review more than once.

Section 10






About

Farhaan Beeharry is a software engineer and a web developer. He is currently working on a project called Ignosia. He is a passionate learner and a team player. He is always looking for new challenges and opportunities to grow. He is a friendly and approachable person. He is a great listener and a good communicator. He is a hard worker and a team player. He is a passionate learner and a team player. He is always looking for new challenges and opportunities to grow. He is a friendly and approachable person. He is a great listener and a good communicator. He is a hard worker and a team player.

Notes

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Social Media



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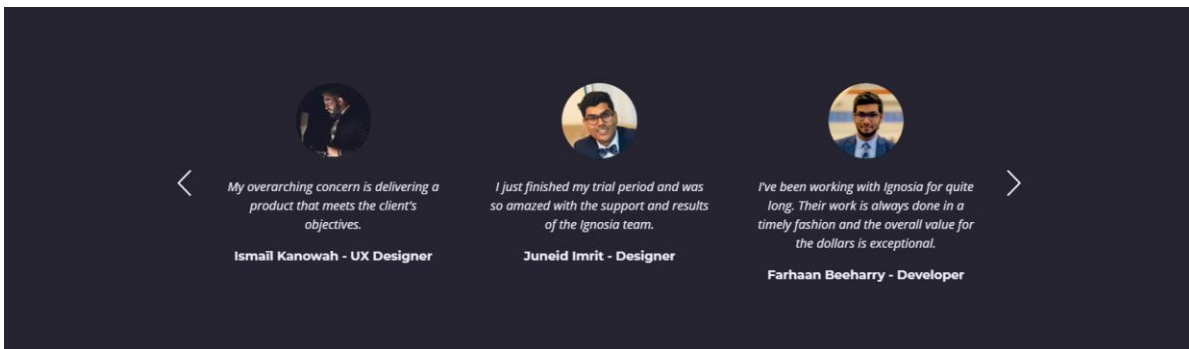
Section 10 is the last section of the website. It contains a small paragraph about the company, some important notes from the company and the social media links of the company.

Screenshots of the website

Section 1



Section 2



Section 3

FEATURES

Ignosia was designed based on input from top designers and experienced developers so it offers all

[CONFIGURING](#)[GALLERY](#)[LOCATION](#)

Goal Setting

Like any self improving process, everything starts with setting your goals and committing to them

Visual Editor

Ignosia provides a well designed and ergonomic visual editor for you to edit your notes and input data

Refined Options

Each option packaged in the app's menus is provided in order to improve your personal marketing status

Calendar Input

Schedule your appointments, meetings and periodical evaluations using the provided in-app calendar option

Easy Bookmark

Bookmark focus mode to keep track of personal achievements and results.

Good Foundation


Get a solid foundation for your self development efforts. Try Ignosia mobile app for any mobile platform

Section 4

PREVIEW

Target the right customers for your business with the help of Ignosia's patented segmentation technology

Section 5



Goals Setting


Ignosia can easily help you track your personal development evolution if you take the time to properly setup your goals at the beginning of the marketing process. Check out the details

LIGHTBOX

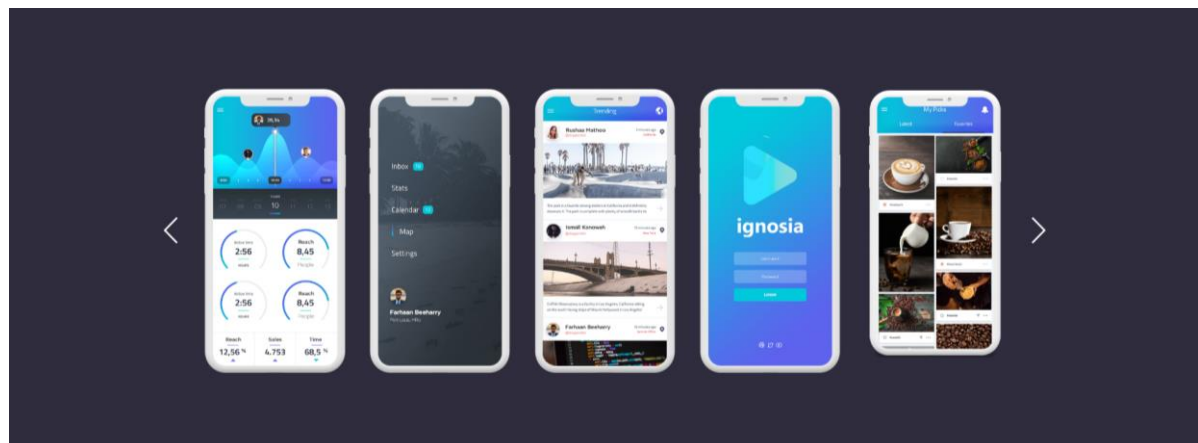
Calendar Input

The calendar input function enables the user to setup branding, marketing and advertising sessions with ease. Just open the feature and start setting up your time as you desire

LIGHTBOX



Section 6



Section 7

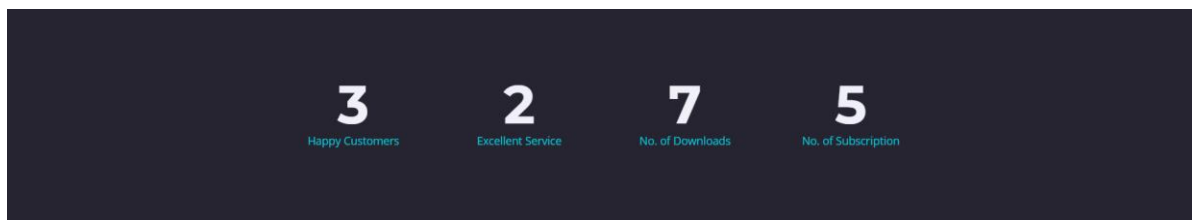
Download Ignosia

Target the right customers for your business with the help of Ignosia's patented technology and increase conversion figures in less than 2 weeks

APP STORE PLAY STORE



Section 8



Section 9

CONTACT

Don't hesitate to give us a call or just use the contact form below

📍 117, Madad-UI-Islam Street, Port-Louis, Mauritius 📞 +230 5707 6881 ✉ office@ignosia.com

First Name

Last Name

Gender (Male/Female/Other)

Email

Mobile Number (xxxx xxxxx)

Device (iOS/Android)

Date of Birth (DD/MM/YYYY)

Country

☐ I am a happy Customer of Ignosia

☐ Ignosia provides excellent service. I am satisfied with Ignosia

Your review

Your message

☐ Check to receive emails about future products and applications

☐ I have read and agree to Ignosia's stated conditions in Privacy Policy and Terms Conditions

SUBMIT REVIEW AND MESSAGE

Section 10






About Ignosia


We're passionate about creating the best mobile apps for personal development

Notes


- We are our own business partners.
- Read our Terms & Conditions, Privacy Policy

Social Media

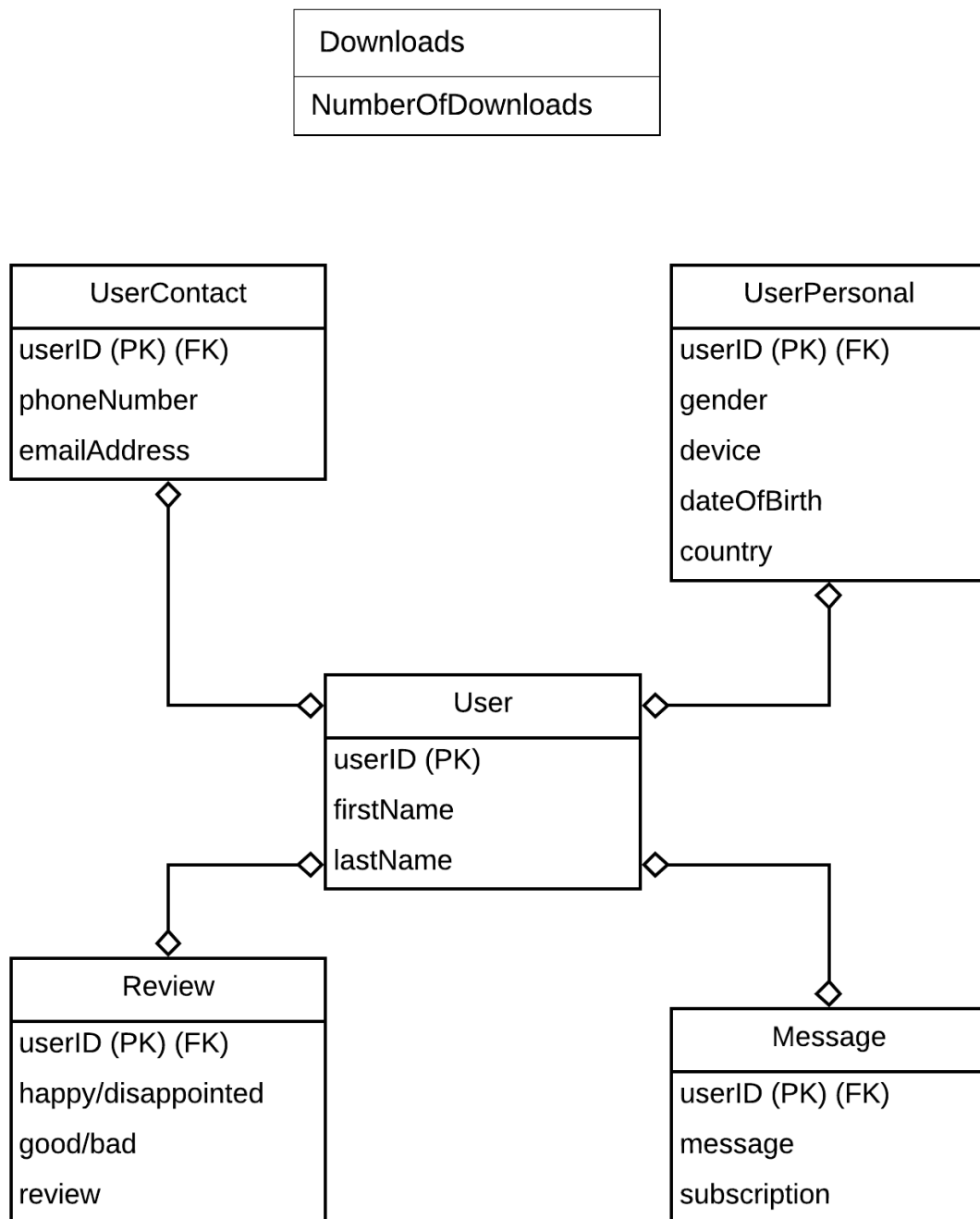




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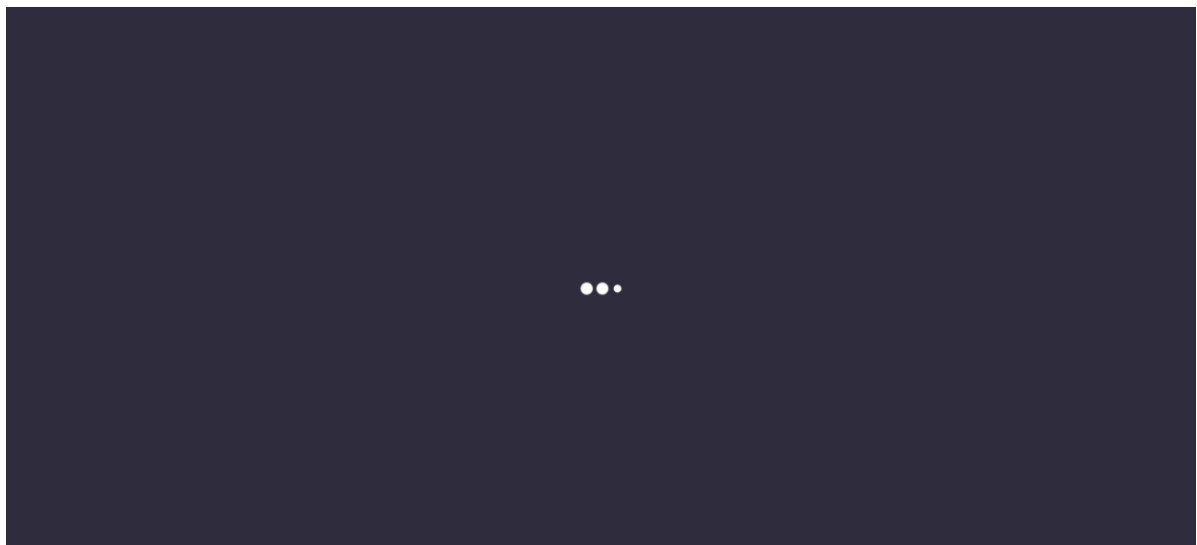
Final Database Design



Features of the website

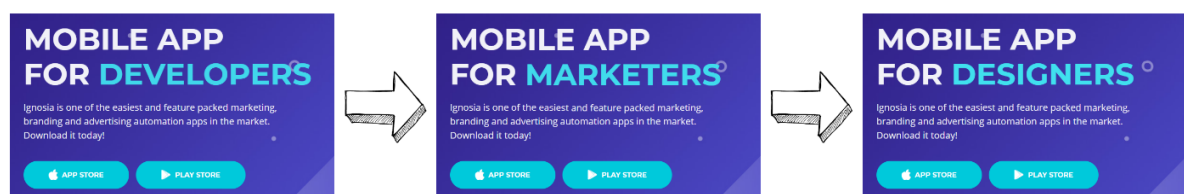
Preloader

While the webpage is being loaded until it is fully loaded. An animation with the 3 circles each one being highlighted in turn after the other appears. This animation always appears for a minimum of 500ms and a maximum up to the time the webpage is fully loaded.



Morphext

After each 2 seconds, the text in blue changes. The 3 words has been set in the HTML code. It changes from 'DEVELOPERS' to 'MARKETERS' to 'DESIGNERS' to 'DEVELOPERS' and then starts the animation all over again.

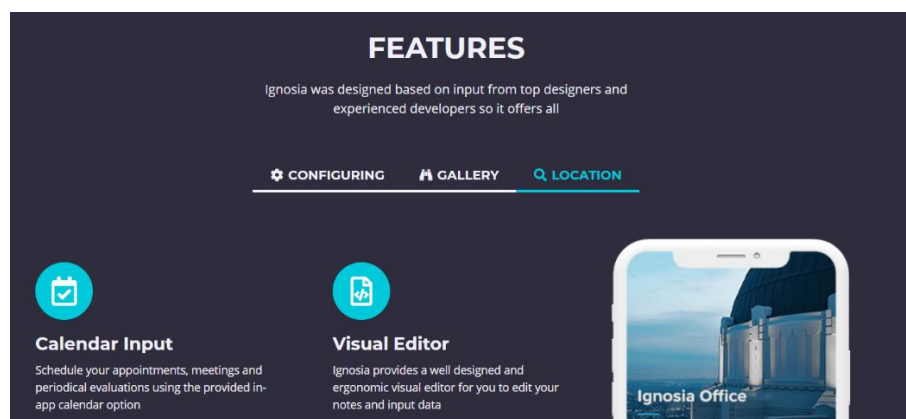
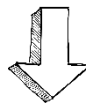
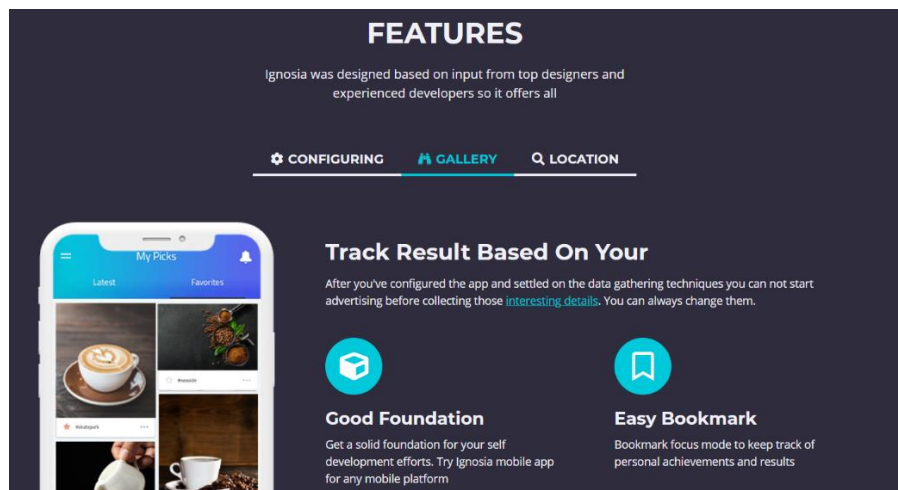
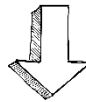
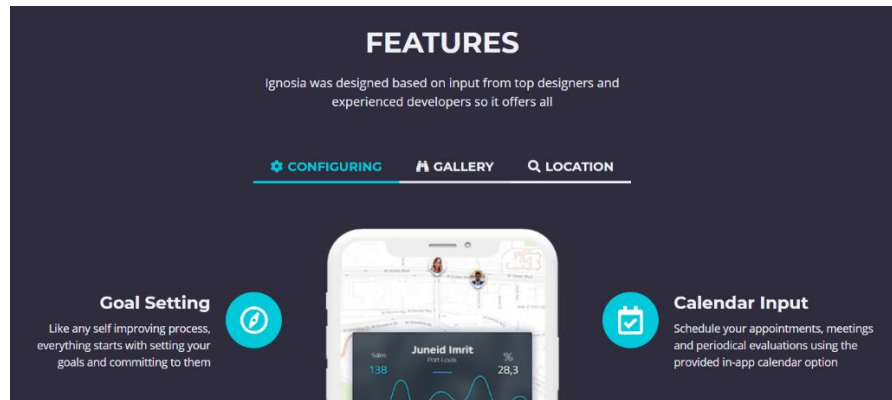


Navigation bar – auto-scroll to section

When the user clicks on any link on the navigation bar (except for the current highlighted one), the page auto scrolls to the respective section of the webpage with a smooth animation.

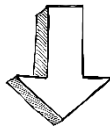
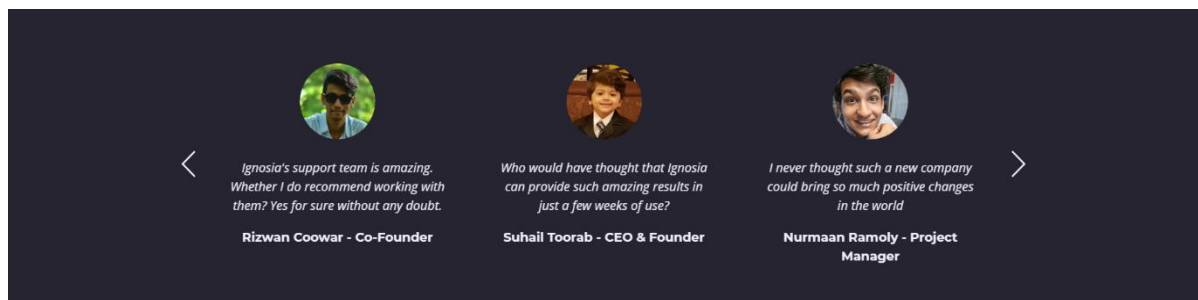
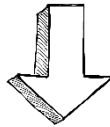
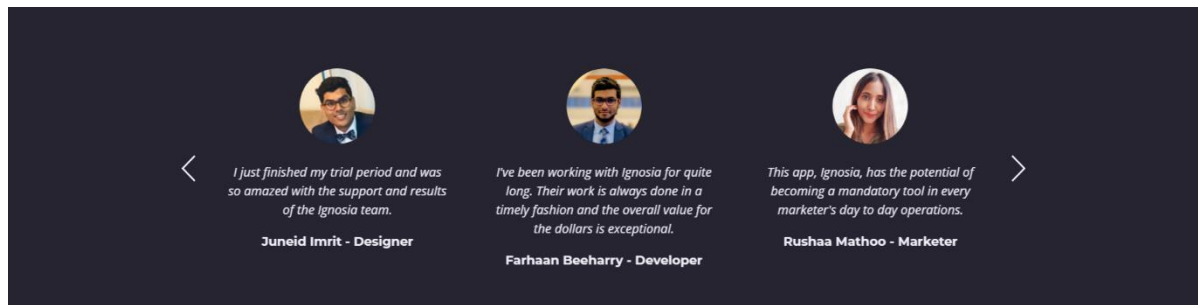
Tab links

The tab links contain 'CONFIGURING', 'GALLERY' and 'LOCATION'. Under each tab there is a different section. On clicking any tab (except the highlighted one), it's respective section will appear to give more info about the title in the tab selected.



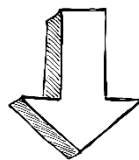
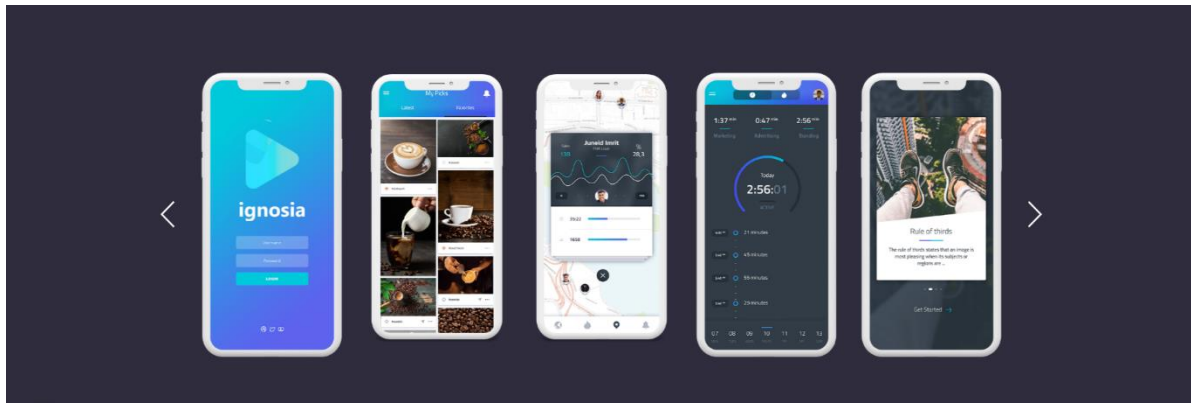
My team

In the “My team” section of the website, there are 7 persons with their pictures, a testimonial from them, their name and their position at Ignosia. On each view, only 3 team members are shown. To view other team members, the user can either wait for 5 seconds, or click on either of the two arrows on each end or click on the view and drag either right or left.



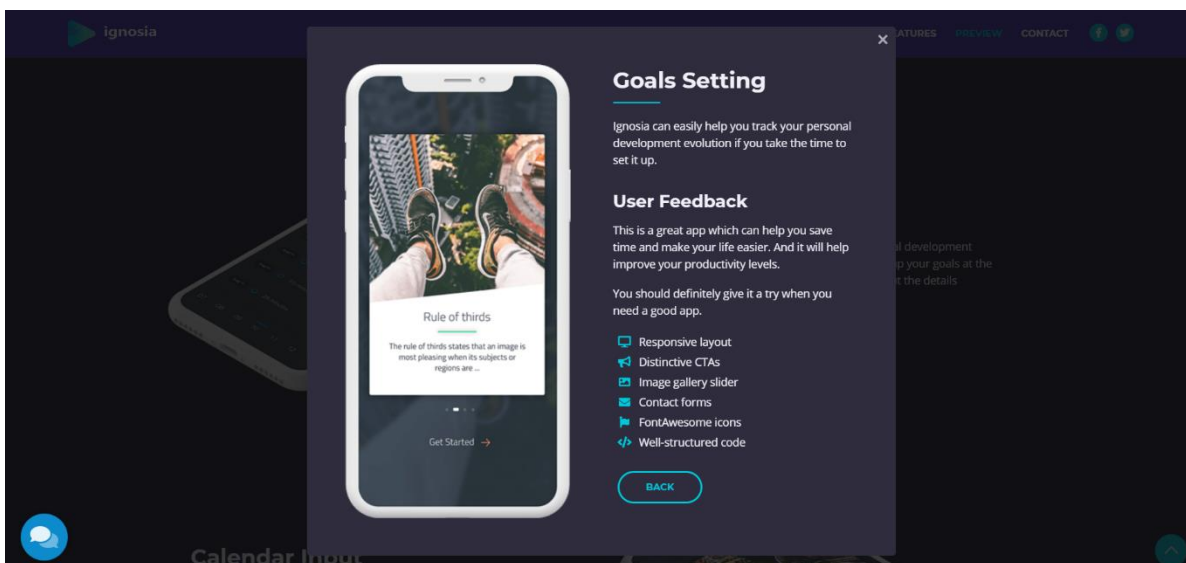
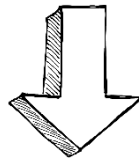
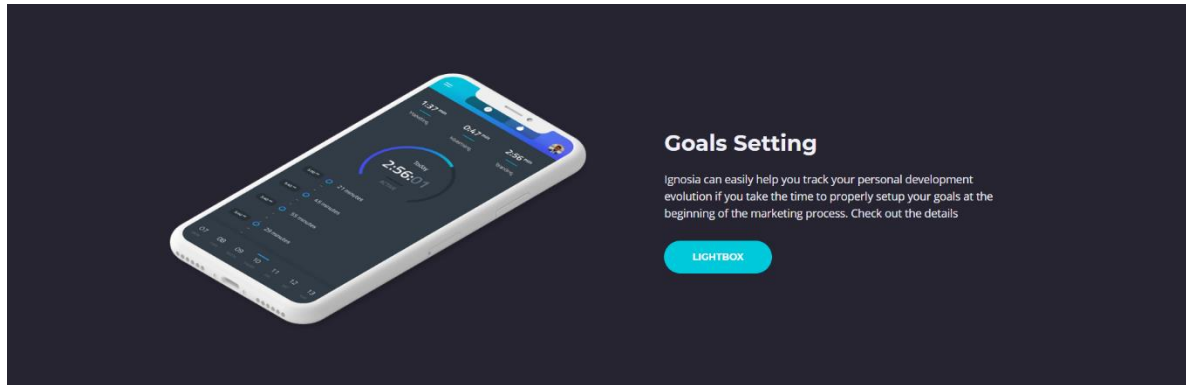
Gallery

The “Gallery” section works same as the “My team” section except that it has an additional feature. On clicking on any image in the “Gallery” section, the image pops up to let the user have a better look at the image. On clicking on the popped-up image, the image changed to the next one.



Lightbox (modal)

On clicking on the “Download” or “Lightbox” button, a model pops up displaying more details on the specific feature or action.

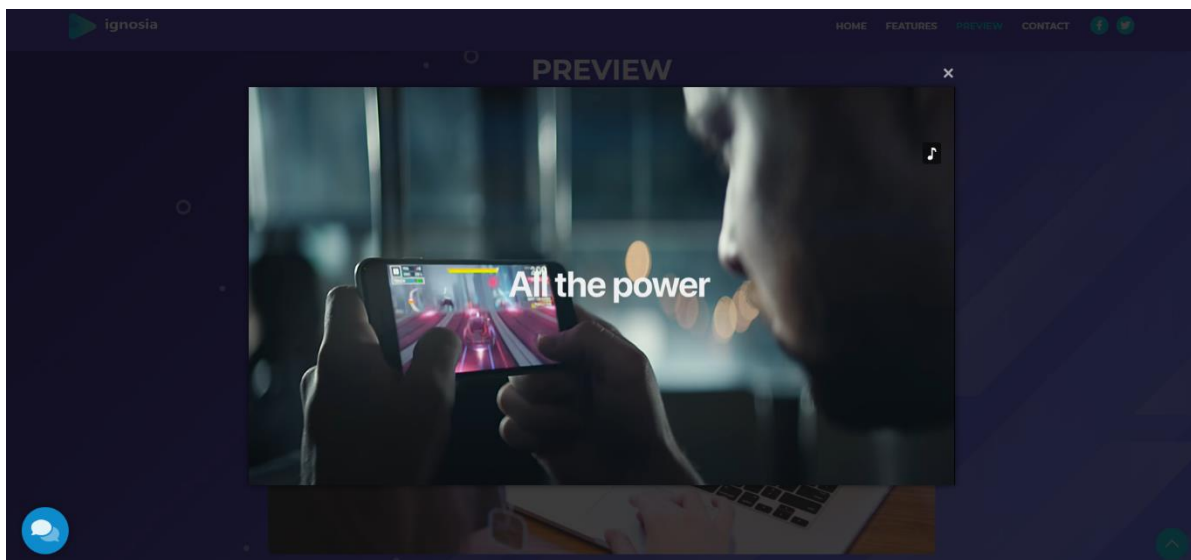
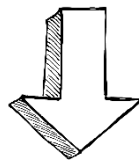
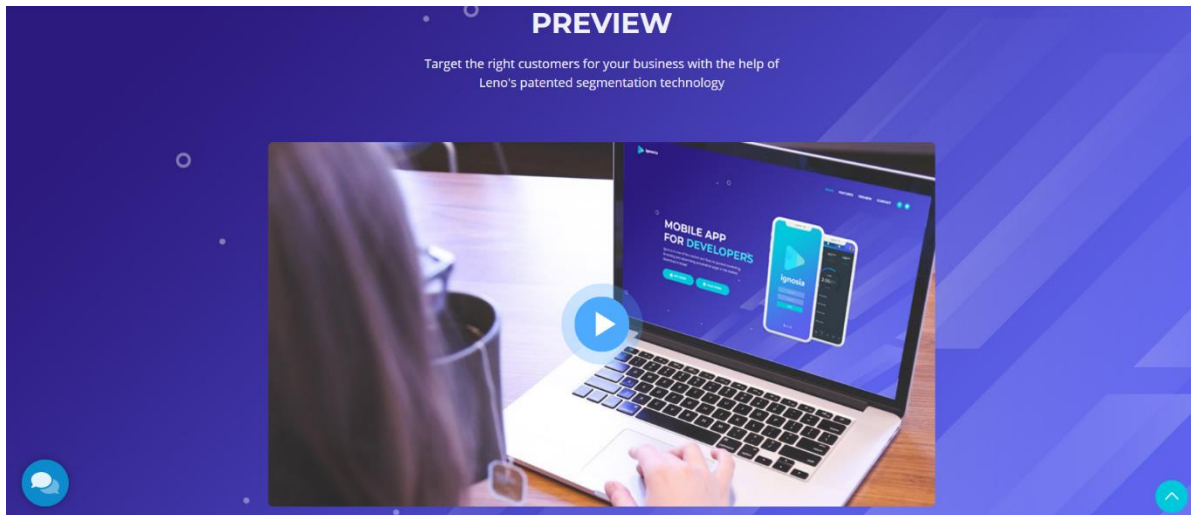


Back Button

Considering the above feature, the lightbox, when the user clicks on the back button, the modal does not just close. It actually closes and scrolls back to where the button was.

Video Preview

On clicking on the play icon on the video frame, a modal pop-up with the video inside appears. The video will start playing automatically and can be switched to full screen.



Counters

On scrolling into the “Counter” section of the webpage, each time, the values start from 0 and animate up to the value the webpage receive from the server. The values change according to the values in the database. Each time the user clicks on one of the four download buttons, the number of downloads increment by 1. The number of happy customers, excellent service and number of subscriptions is obtained from counting the number it occurs in its respective tables in the database.



Real time data update

When the user clicks on download or submit a form, the values of the counters above are automatically updated. Therefore, when scrolling back to the counter section, the user will see the updated values. This works even for the downloads.

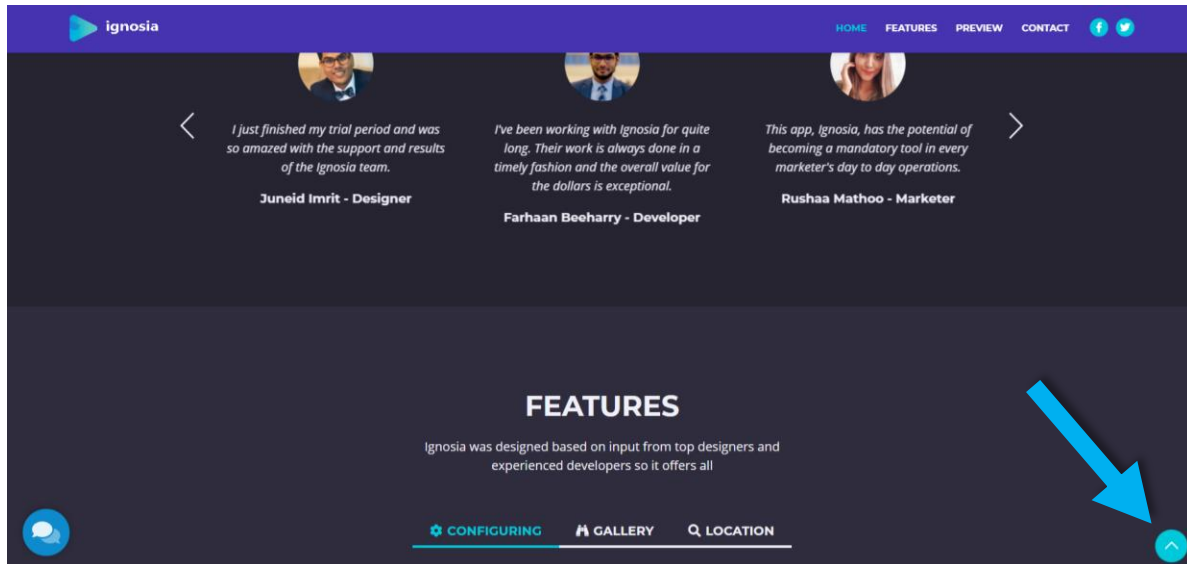
Moving the text field title

As default, the title in the text field appears in the middle. But when the user clicks on it to insert data, the title moves up. If the user removes the data that he/she typed, the title moves back to the middle of the text field.

CONTACT
Don't hesitate to give us a call or just use the contact form below
117, Madad-UI-Islam Street, Port-Louis, Mauritius +230 5707 6881 office@ignosia.com
First Name
Last Name

Back to top button

On the bottom right of the webpage, there is a “Back to top” button. On clicking this button, the page auto scrolls to the top of the webpage. This button appears only when the user scrolls 700px from the top of the page and disappears when the user scrolls less than 700px from the top.



Validation

The contact form contains many appropriate validations. For example, the email address that the user inserts should not be empty, should not be more than 64 characters and should match the email format. Such validations are present for each and every text fields in the contact form. If the user does not respect the validation, an error message in red appears below the text field to inform the user that he did an error filling the form.

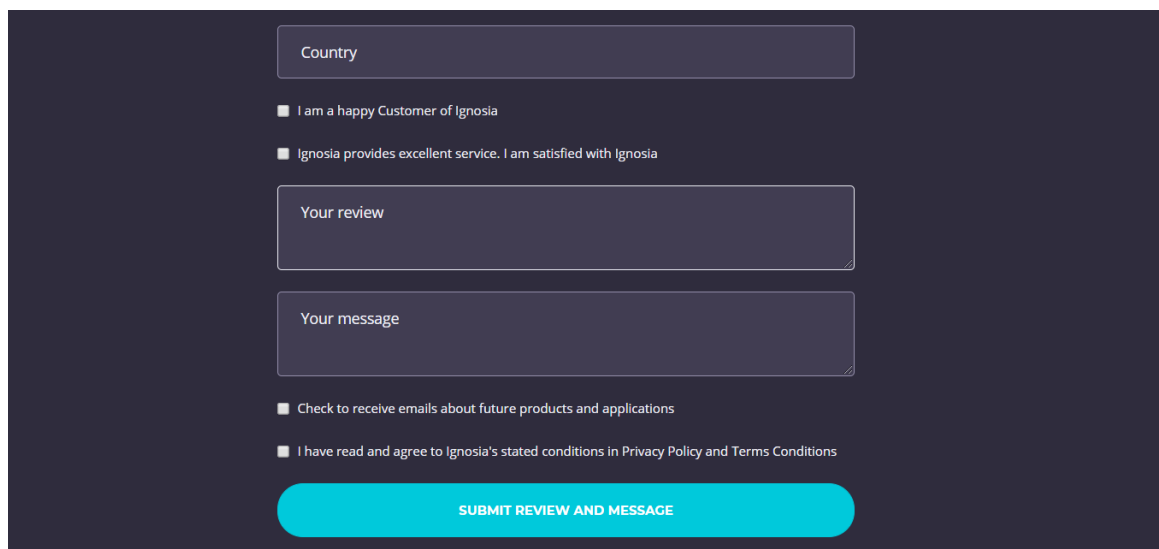
A screenshot of a contact form with several input fields. The fields are: 'First Name' (filled with 'Farhaan'), 'Last Name' (filled with 'Beeharry'), 'Gender (Male/Female/Other)' (filled with 'Male'), 'Email' (filled with 'farhaanbeeharry'), 'Mobile Number (xxxx xxxxx)' (empty), 'Device (iOS/Android)' (empty), and 'Date of Birth (DD/MM/YYYY)' (empty). Red error messages are displayed below the 'Email', 'Mobile Number', 'Device', and 'Date of Birth' fields. The error messages are: 'Check email format!', 'Mobile Number field cannot be empty!', 'Device should be iOS or Android!', and 'Date of Birth field cannot be empty!'.

Auto scroll on error

For the user input errors mentioned in the previous section, if an error occurs, when the user clicks on submit the form, the page auto scrolls to where the error is. This allows the user to know where he/she made a mistake.

Resizable review and message box

The review and message boxes are resizable. The user can click on the bottom right of the box and drag it up or down to resize it. This provides more space for the user to type his review or message.



Country

☐ I am a happy Customer of Ignosia

☐ Ignosia provides excellent service. I am satisfied with Ignosia

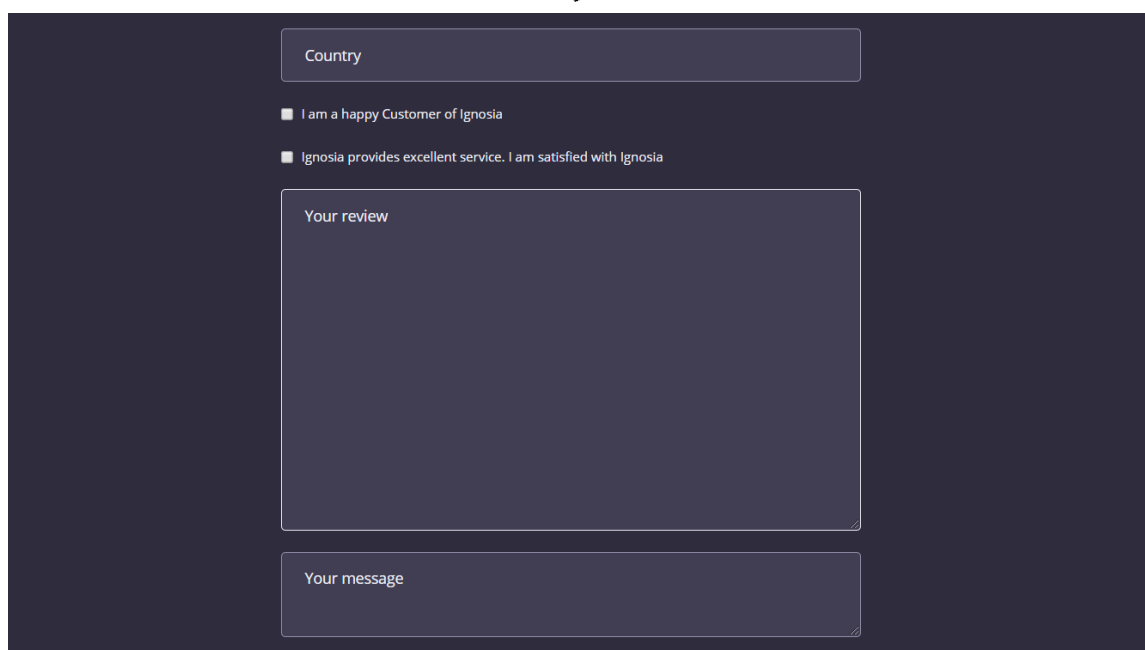
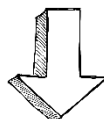
Your review

Your message

☐ Check to receive emails about future products and applications

☐ I have read and agree to Ignosia's stated conditions in Privacy Policy and Terms Conditions

SUBMIT REVIEW AND MESSAGE



Country

☐ I am a happy Customer of Ignosia

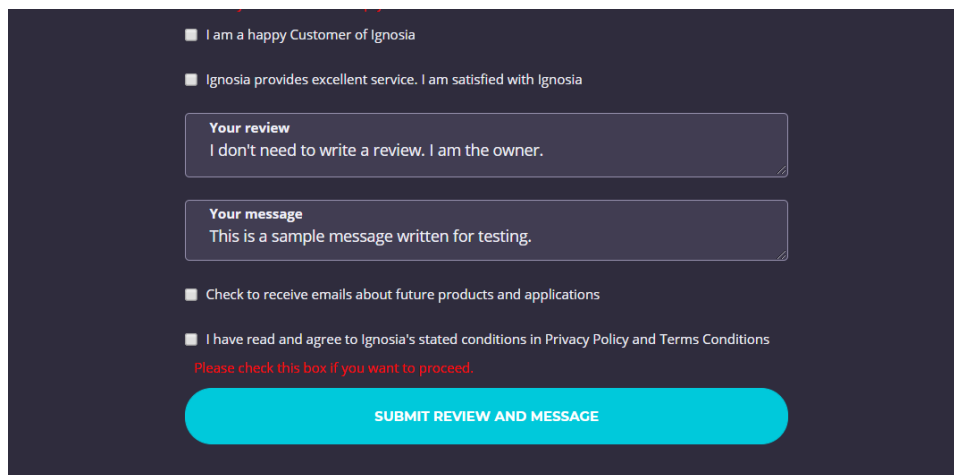
☐ Ignosia provides excellent service. I am satisfied with Ignosia

Your review

Your message

Terms agreement

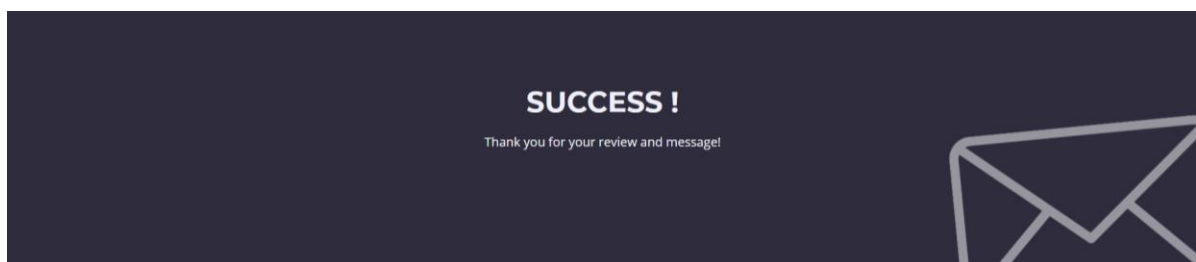
Before submitting the contact form, the user has to agree to Ignosia's terms and conditions. If the latter does not agree to the terms and conditions, he will not be able to submit the form. The agreement is in the form of a checkbox. If the checkbox is not checked and the user clicks on submit, an error will appear and the page will auto scroll to the error which will be just below the checkbox.



The screenshot shows a dark-themed contact form submission screen. At the top, there are two checkboxes: "I am a happy Customer of Ignosia" and "Ignosia provides excellent service. I am satisfied with Ignosia". Below these is a text area labeled "Your review" with the placeholder text "I don't need to write a review. I am the owner." followed by another text area labeled "Your message" with the placeholder text "This is a sample message written for testing." Below the message area is a checkbox labeled "Check to receive emails about future products and applications". At the bottom, there is a checkbox labeled "I have read and agree to Ignosia's stated conditions in Privacy Policy and Terms Conditions" with a red error message "Please check this box if you want to proceed." below it. A large blue button labeled "SUBMIT REVIEW AND MESSAGE" is at the bottom.

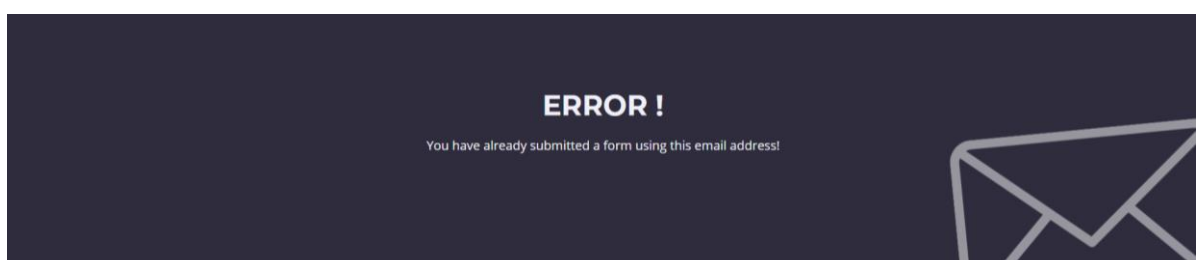
Success message

When the user clicks on submit the form, the backend will start to work. If the data of the user is successfully saved into the SQL database, the section of the contact form will be removed and replaced by a success message.



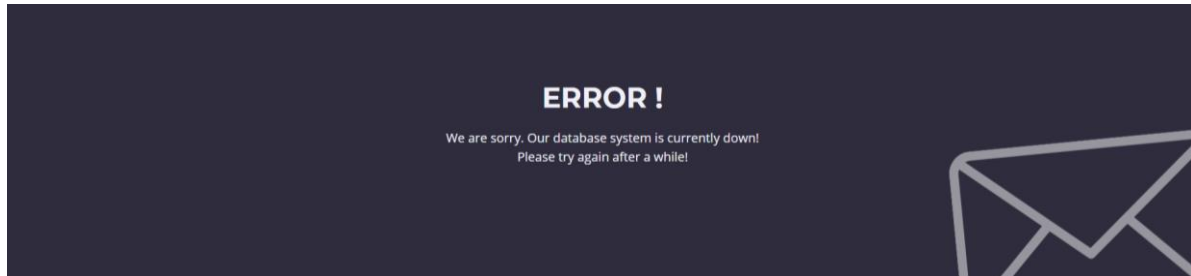
Duplicate email address

If the user already submitted a form with an email address. He will not be able to submit again with the same email address and will be shown an error message.



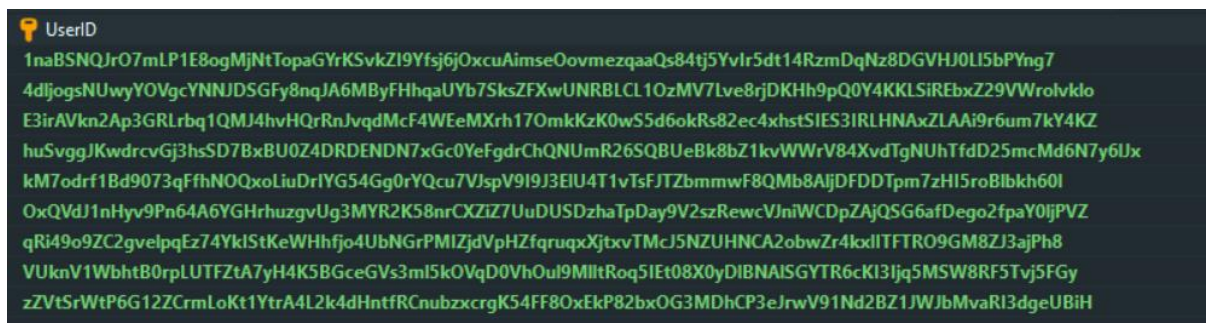
Error message – database down

In case the user submits a form but the database is not responding, the user will see a message letting him know that our database is currently down.



Auto generated userID

The user id for each person is automatically generated using a custom written function. This user id contains alphanumeric characters including caps letters and contains 100 characters. Therefore, probability of duplicate user id is negligible.



Check date of birth

A custom function has been written to check valid date of birth of the user. It checks for invalid date format and dates which are in the future and return an error message in case there is any.

Connection limit

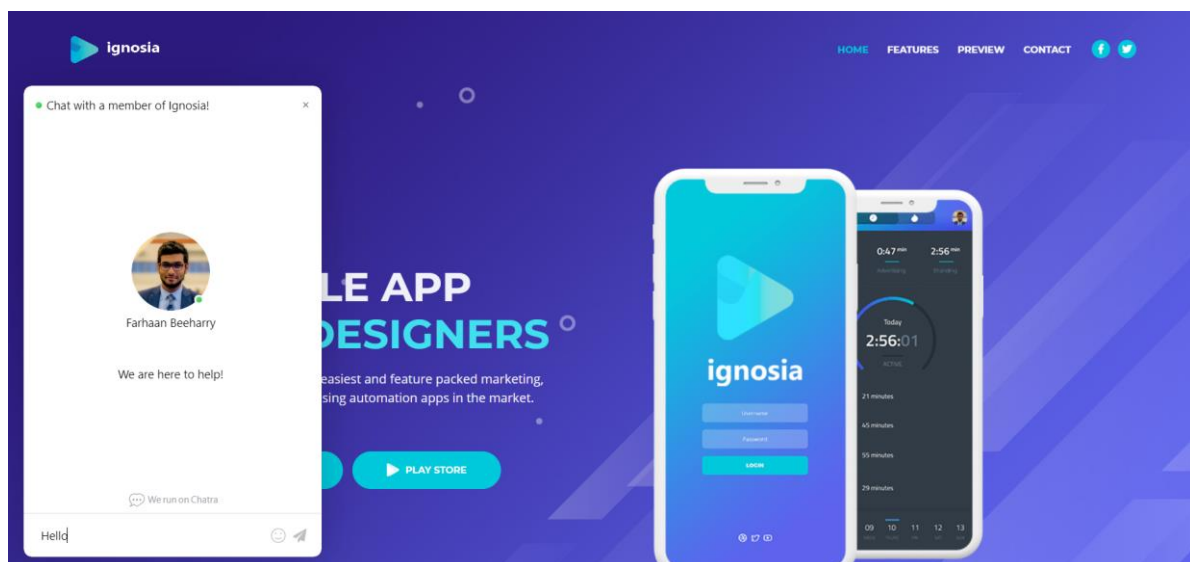
The connection limit between NodeJS and the SQL database is set to 100. The reasons behind this are that there are several functions running at the same time. For example, the website is constantly checking for a change in values in the counter section. The website is verifying the input email address and also updating download amount on “Download” button click.

Convert DOB to SQL format DOB

The input date of birth of the user is in a format which SQL cannot understand. Therefore, a simple line of code has been written to convert the user input date into SQL readable format.

Live Chat

Live chat between the user and the Ignosia's team has been implemented using the Chatra.io platform. This platform allows the live chat functionality. After the chat has ended, the user receives the full conversation by email to his input email. The live chat button is present on the bottom left of the webpage and always appears on top so that the user can access it at any time.



Testing

HTML and CSS Validations

Index.html

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for uploaded file index.html

Checker Input

Show ☒ source ☒ outline ☒ image report

Check by No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 55 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 20.4.22

Styles.css

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for styles.css

Checker Input

Show ☒ source ☒ outline ☒ image report

Check by No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Document checking completed. No errors or warnings to show.

Total execution time 426 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 20.4.22

Front-end functional testing (Selenium)

Number of downloads test

In this test, the value of the number of downloads should increase by 1 each time the download button is clicked.

The screenshot shows the Selenium IDE interface for a test case named 'downloadTest'. The test is running on 'http://localhost'. The test steps are as follows:

Step	Command	Target	Value
1	open	ignosiaUrl	
2	set window size	1552x840	
3	click	id=downloads	
4	click	id=downloads	
5	click	css= col-xl-5 btn-solid-lg nth-child(4)	
6	mouse over	css= col-xl-5 btn-solid-lg nth-child(4)	
7	mouse out	css= col-xl-5 btn-solid-lg nth-child(4)	
8	click	linkText=BACK	
9	click	id=downloads	
10	wait for text	id=downloads	513
11	assert text	id=downloads	513

The test log shows the following steps:

- 6. mouseOver on css= col-xl-5 btn-solid-lg nth-child(4) OK
- 7. mouseOut on css= col-xl-5 btn-solid-lg nth-child(4) OK
- 8. click on linkText=BACK OK
- 9. click on id=downloads OK
- 10. waitForText on id=downloads with value 513 OK
- 11. assertText on id=downloads with value 513 OK

The test status is 'downloadTest' completed successfully.

Duplicate email address test

In this test, Selenium will verify whether an existing email address has been used to fill the form or not.

The screenshot shows the Selenium IDE interface for a test case named 'duplicateEmailTest'. The test is running on 'http://localhost'. The test steps are as follows:

Step	Command	Target	Value
30	click	id=terms	
31	click	css= form-control-submit-button	
32	click	id=success-message	
33	click	id=success-message	
34	double click	id=success-message	
35	click	css=#contact .col-lg-12	
36	click	id=successMessage	
37	click	id=successMessage	
38	double click	id=successMessage	
39	click	id=successMessage	
40	assert text	id=success-message	ERROR !

The test log shows the following steps:

- 35. click on css=#contact .col-lg-12 OK
- 36. click on id=successMessage OK
- 37. click on id=successMessage OK
- 38. doubleClick on id=successMessage OK
- 39. click on id=successMessage OK
- 40. assertText on id=success-message with value ERROR ! OK

The test status is 'duplicateEmailTest' completed successfully.

Number of happy customers test

In this test, Selenium will check if the number of happy customers has increased by one when a user fills a form and select “I am happy...”.

Project: ignosia*

Executing - Run current test Ctrl+R

Step	Command	Target	Value
31	click	id=subscription	
32	click	id=terms	
33	click	id=happy	
34	click	id=happy	
35	double click	id=happy	
36	click	id=happy	
37	click	id=happy	
38	double click	id=happy	
39	click	css= form-control-submit-button	
40	wait for text	id=happy	9
41	assert text	id=happy	9

Runs: 1 Failures: 0

Log Reference

- 36. click on id=happy OK 18:59:32
- 37. click on id=happy OK 18:59:32
- 38. doubleClick on id=happy OK 18:59:32
- 39. click on css= form-control-submit-button OK 18:59:32
- 40. waitForText on id=happy with value 9 OK 18:59:32
- 41. assertText on id=happy with value 9 OK 18:59:35
- 'happyCustomerTest' completed successfully 18:59:35

Number of excellent service test

In this test, Selenium will check if the number of excellent services has increased by one when a user fills a form and select “Ignosia provides excellent service...”.

Project: ignosia*

Tests - Search tests... http://localhost

Step	Command	Target	Value
37	type	id=message	lhg
38	click	id=review	
39	type	id=review	dgfghlfgrelgsgfghrewghgrelgh
40	click	id=message	
41	type	id=message	fhgerghghrthertghrghrewgh
42	click	id=subscription	
43	click	id=terms	
44	click	css= form-control-submit-button	
45	wait for text	id=excellent	10
46	assert text	id=excellent	10

Log Reference

- 41. type on id=message with value fhgerghghrthertghrghrewgh OK 19:04:57
- 42. click on id=subscription OK 19:04:57
- 43. click on id=terms OK 19:04:57
- 44. click on css= form-control-submit-button OK 19:04:57
- 45. waitForText on id=excellent with value 10 OK 19:04:57
- 46. assertText on id=excellent with value 10 OK 19:05:00
- 'excellentServiceTest' completed successfully 19:05:00

Number of subscription test

In this test, Selenium will check if the number of subscribed customers has increased by one when a user fills a form and select “Check to receive emails ...”.

Selenium IDE - ignosla*

Project: ignosla*

Tests + >! ▶ @e! ⌚

Search tests... Run current test Ctrl+R

	Command	Target	Value
41	click	id=satisfaction	
42	click	css= offset-lg-3	
43	click	css= form-group:nth-child(11) > label-control	
44	type	id=review	sfdghgldghlsgdshwrsfghfg
45	click	id=subscription	
46	click	id=terms	
47	click	id=message	
48	type	id=message	sfdgshethethdwtsrehehr
49	click	css= form-control-submit-button	
50	wait for text	id=subscribed	13
51	assert text	id=subscribed	13

Command # 📄

Target 🔍

Value

Description

Log	Reference
46. click on id=terms OK	19:10:25
47. click on id=message OK	19:10:25
48. type on id=message with value sfdgshethethdwtsrehehr OK	19:10:25
49. click on css= form-control-submit-button OK	19:10:25
50. waitForText on id=subscribed with value 13 OK	19:10:25
51. assertText on id=subscribed with value 13 OK	19:10:28
'numberOfSubscriptionTest' completed successfully	19:10:28

Mocha/Chai Testing (Unit Testing)

passes: 5 failures: 0 duration: 0.01s 100%

#addDownloadTest	✓ should increment number of downloads by 1 when download button is pressed	▶
#checkAge	✓ it should take the user date input and convert it to SQL format	▶
#checkPhone	✓ it should check whether the input phone number contains 8 digits	▶
#checkEmail	✓ it should check whether the input email format is good, the email is too long or acceptable	▶
#checkGenderAndDevice	✓ it should check whether the input gender and device type is acceptable by the database	▶