

BHRT

Project Case Study

Type	Client	Location
Web App	Endotech Solutions	U.S

Product Overview - What's BHRT?

Bioidentical hormone replacement therapy

Use of hormones that are identical on a molecular level with endogenous hormones in hormone replacement therapy.



Proprietary algorithm that helps both doctors and patients choose a personalized BHRT treatment plan

Client Need

Implement BHRT algorithm in cloud which will help the patients and doctors. User base which they were looking at were above 40 years age. System should sync across various platforms giving a hassless user experience.

Our Offering

Proposed a cloud based solution which used aws services for implementing the various features.

Used elastic cloud computing for hosting the application and used the Relational Database System for the database.

Simple Storage Service was used for uploading the files.

System used laravel framework in php for scalability and performance.

Created a lot of screen combos and did A/B Testing with their prospective users before finalizing on the final screen designs and flow.

Technology Used

Front End

HTML5

Css3

Backend

Laravel framework

PhP MySQL



Challenges Faced

→ Design

The system was to work with users of age 40 and above. So we had to make a design that is elegant and at the same time easy to use.

Solution

Store We did some A/B testing with prospective users and finalized on the designs so that the maximum output is received

→ Cloud Service choosing

Solution

We had to choose between AWS and Azure since they had plans to upgrade this to a HIPAA compliant application in future. We had to analyse the features of both the services while the optimum costing had to be maintained

→ A/B Testing

Solution

We had to find out which design solution works best with their prospective users and hence had to use A/B testing

Impact on Client Business

A great Web and IOS app which is easy for using and elegant at the same time. The performance of the system is also on the high end

Screens

Hormones & Me

- Dashboard
- Patient Information
- Social History
- Family History**
- Past Medical History
- Past Surgical History
- Vaccination History
- Current History
- Impetus Questionnaire

Family History

Cancer	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Grandparent	<input type="checkbox"/> Father	<input type="checkbox"/> Mother	<input type="checkbox"/> Sister	<input type="checkbox"/> Brother
Diabetes	<input type="checkbox"/> None	<input type="checkbox"/> Grandparent	<input type="checkbox"/> Father	<input checked="" type="checkbox"/> Mother	<input type="checkbox"/> Sister	<input type="checkbox"/> Brother
High Cholesterol	<input type="checkbox"/> None	<input type="checkbox"/> Grandparent	<input type="checkbox"/> Father	<input checked="" type="checkbox"/> Mother	<input type="checkbox"/> Sister	<input type="checkbox"/> Brother
Depression	<input type="checkbox"/> None	<input type="checkbox"/> Grandparent	<input type="checkbox"/> Father	<input type="checkbox"/> Mother	<input checked="" type="checkbox"/> Sister	<input type="checkbox"/> Brother
Stroke	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Grandparent	<input type="checkbox"/> Father	<input type="checkbox"/> Mother	<input type="checkbox"/> Sister	<input type="checkbox"/> Brother
Mental Illness	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Grandparent	<input type="checkbox"/> Father	<input type="checkbox"/> Mother	<input type="checkbox"/> Sister	<input type="checkbox"/> Brother
Lung Disease	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Grandparent	<input type="checkbox"/> Father	<input type="checkbox"/> Mother	<input type="checkbox"/> Sister	<input type="checkbox"/> Brother
Asthma	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Grandparent	<input type="checkbox"/> Father	<input type="checkbox"/> Mother	<input type="checkbox"/> Sister	<input type="checkbox"/> Brother

Hormones & Me

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Past Medical History

Asthma	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Cancer	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Ulcers	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
High Cholesterol	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Anxiety	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Heart Attacks	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
COPD	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Depression	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Diabetes	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Stroke	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Irregular Heartbeat (afbib)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Gerd (Acid Reflux)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No