



## IRVINS - Full Stack Candidate Test

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### Full Stack Test Project

This test is divided into **FIVE** mandatory challenge and 2 optional challenges.

Since our stacks are composed of NodeJS (Express & MongoDB), we require you to work on this project with NodeJS & MongoDB for backend.

You can however use ANY framework you like. Eg: **Express/Loopback/NestJS** for Backend and **React/Vue/Angular** for frontend

In order to submit the project, you **MUST** complete **Challenge 1, Challenge 2**. For every optional challenge completed, you will earn score that will be summed into your final score.

Please submit your code at least **3rd January 2020**

We will select candidates who gets the highest score (*You do not need to complete all*)

### Submission

Submission can be done in TWO ways:

1. Send zipped project files to [fazri.alfan@irvinsalteredegg.com](mailto:fazri.alfan@irvinsalteredegg.com)
2. **EXTRA 50 POINT:** Upload it to Bitbucket/Github and email repository link to [fazri.alfan@irvinsalteredegg.com](mailto:fazri.alfan@irvinsalteredegg.com)

### Challenge 1 (MANDATORY)

**Create this endpoint: [POST] /api/products** Validate and save a Product into database if successful. Product should have these properties: - id - name (mandatory) - price (mandatory)

If successful, this endpoint must return a JSON response and `201` status code.

```
{
  "data": {
    "_id": "507f191e810c19729de860ea",
    "name": "Product 1",
    "price": 100000,
    "image": "http://s3-ap-southeast-1.amazonaws.com/s3.irvinsalteredegg.com/engineering-test/images/product-1.jpg"
  }
}
```

### Challenge 2 (MANDATORY)

**Create this endpoint: [GET] /api/products/{id}** Get product detail by ID from database If successful, this endpoint must return a JSON response of updated product and `200` status code.

```
{
  "data": {
    "_id": "507f191e810c19729de860ea",
    "name": "Product 1",
    "price": 100000,
    "image": "http://s3-ap-southeast-1.amazonaws.com/s3.irvinsalteredegg.com/engineering-test/images/product-1.jpg"
  }
}
```

### Challenge 3 (MANDATORY)

**Create this endpoint: [PUT] /api/products/{id}** Validate and update a Product. If successful, this endpoint must return a JSON response of deleted product id and `200` status code.

```
{
  "data": {
    "_id": "507f191e810c19729de860ea",
    "name": "Product 1",
    "price": 100000,
    "image": "http://s3-ap-southeast-1.amazonaws.com/s3.irvinsaltedegg.com/engineering-test/images/product-1.jpg"
  }
}
```

## Challenge 4 (MANDATORY)

**Create this endpoint: [DELETE] /api/products/{id}** Delete a Product. If successful, this endpoint must return a JSON response of deleted product id and `200` status code.

```
{
  "data": [
    "507f191e810c19729de860ea"
  ]
}
```

## Challenge 5 (MANDATORY)

Build the simple UI for challenge 1-4 using modern Javascript framework like **React (Preferable) / Vue.js / Angular**

### OPTIONAL CHALLENGES

#### Challenge 5 (Max score: 100)

Create unit-tests for each endpoint

#### Challenge 6 (Max score: 50)

Submit your project on Bitbucket/Github

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