**Building Hybrid Apps with Ionic Framework**

*A Seminar Report submitted in partial fulfillment of the requirements for the award of degree of*

# MASTER OF COMPUTER APPLICATIONS

*By*

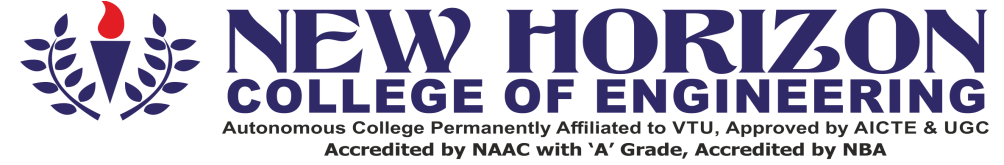
**RAJESH SAHA**

**1NH16MCA51**

*Under the Guidance of*

**C.R.Viswanatha**

**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**

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Ring Road, Near Marathahalli,

Bangalore – 560103

**2018-2019**

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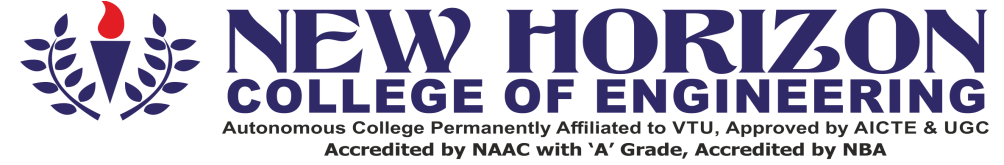
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**CERTIFICATE**

This is to certify that **RAJESH SAHA,** bearing USN **1NH16MCA51** has successfully completed his/her final year VI semester Seminar work entitled **Building Hybrid Apps with Ionic Framework** as a partial fulfillment of the requirements for the award of **MASTER OF COMPUTER APPLICATIONS** degree, during the Academic Year **2018-19** under my supervision. This seminar report has not been submitted to any other Organization/University for any award of degree.

**Signature of the Guide Signature of the HoD**

**External Viva**

**Internal Examiner**  **External Examiner**

**Date:**

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**ABSTRACT**

Hello, I’m new to angular and ionic (started a few weeks ago) and I’m really pleased that the code style is similar to php with OOP classes etc. I’m loving it. I wanted to get some feedback on what I’m doing with my abstract class I wrote which all my page components extend.

I added all the basic services I need on most pages via injection so I don’t have to keep importing into each page. I just extend my page class. Will including these components slow down page module loading? or is the result more so pointers for classes that may or may not be used. All the pages are modules which are lazy loaded and extend this class at the component level. Good or bad idea? Lol I have a habit of not wanting to write the same lines over and over and I want my code to be cohesive in it’s intentions.

import { Injector} **from** '@angular/core';

import { AlertController, NavController, LoadingController, ViewController, ModalController} **from** "ionic-angular";

import { FormBuilder, FormGroup, Validators} **from** "@angular/forms";

import { Storage} **from** "@ionic/storage";

import { TokenService} **from** "../providers/token.service";

import { HttpService } **from** '../providers/http.service';

export **abstract** **class** **Pages** {

**public** nav:NavController;

**public** http:HttpService;

**public** formBuilder:FormBuilder;

**public** modal: ModalController;

**public** spinner: any;

constructor(

injector: Injector

){

**this**.view = injector.**get**(ViewController);

**this**.nav = injector.**get**(NavController);

**this**.http = injector.**get**(HttpService);

**this**.alert = injector.**get**(AlertController);

**this**.modal = injector.**get**(ModalController);

**this**.tokenService = injector.**get**(TokenService);

}

validators(){

**return** Validators;

}

}

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