

Synopsis

Risk Management System

SUBMITTED BY

Sonali Agarwal 130905236 sonali17061995@gmail.com

Under the Guidance of:

Internal Guide

Mr. Siva Selvan Assistant Professor, Department of Computer Science and Engg. Manipal Institute of Technology, Manipal University Manipal-576104

External Guide

Mr. Akhilesh Verma Associate, PMT-IS-CT-RA&R-Real Estate, BlackRock Services India Pvt. Ltd

DETAILS OF THE ORGANIZATION:

BlackRock Services India Pvt. Ltd, Building #14, 14th Floor, DLF Building, Tower C, DLF Cyber City Phase-III, Gurugram, Haryana, 122002, India

NAME OF EXTERNAL GUIDE WITH CONTACT DETAILS:

Mr. Akhilesh Verma, Associate, APG-PMT-IS-CT-RA&R-Real Estate, BlackRock Services India Pvt. Ltd

Phone No: +911246780976

Email ID: akhilesh.verma@blackrock.com

DATE OF COMMENCEMENT OF THE PROJECT:

16th January, 2017

PROJECT DURATION:

24 Weeks

Signature of External Guide

BLACKROCK'

BlackRock Services India Private Limited CIN No.: U74140HR2004PTC037490 www blackrock co in

CONFIDENTIAL

September 28, 2016

Sonali Agarwal Manipal Institute of Technology Manipal.

Dear Sonali

We are pleased to offer you internship with BlackRock Services India Pvt. Ltd ("the Company") as an Intern from January 16, 2017 until July 14, 2017. This letter, together with the enclosed written statement of terms and conditions, constitutes our offer to you.

This offer is confidential and should not be disclosed to others. It will remain open for ten working days, after which time it will be deemed to have been withdrawn if you have not accepted by then.

Please signify your acceptance of this offer by signing and return one copy of the written statement of terms and conditions of internship, along with the documents listed in the attachment using the BlackRock envelope provided.

If you have any queries regarding this letter or the enclosures or if you wish to receive copies of the various policies and schemes referred to in the written statement of terms and conditions, please contact email contactHR@blackrock.com.

We are very excited about you joining the Company as an intern and hope you would benefit substantially from your learning at BlackRock.

28/9/2016

Yours sincerely

Ramneesh Mohan Director

Human Resources
For and on behalf of

BlackRock Services India Pvt. Ltd

Soveli

Sonali Agarwal

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1. Introduction:

1.1 Topic

Risk Management System is used to provide and analyze analytics and data for BlackRock to use internally when making investment decisions. Financial models are generated which are then analyzed for the existing and new fixed income clients. Also it manages and amends client accounts as needed.

1.2 Organization

BLACKROCK®

BlackRock is an American multinational asset management firm founded in 1988, which has over \$4.5 trillion in assets under management. It is by far the world's largest asset manager besides which it also provides advisory to clients (Financial Management Advisory) being under the BlackRock Solutions (BRS). BlackRock firmly believes in the following principles: We are "one BlackRock", we are fiduciary to our clients, we are passionate about our performance and we are Innovators. BlackRock consists of various units which function interdependently. One major department is the APG (Aladdin Product Group). Aladdin (Asset Liability and Debt and Derivative Investment Network) is the platform on which BlackRock runs its complete business. The Aladdin Product Group's mission is to build the best investment management system in the world. The team is organized to provide scalable investment and client systems which are built on a resilient technical infrastructure. The APG group mainly focusses on providing the best technology platform for investment management by developing and building BlackRock's core platform and supporting all the various units of BlackRock.

3. Objective:

- Fully understand BlackRock's business and services
- Learn various technologies used by the PMT(portfolio management) department
- Develop technical and organizational ad be capable of handling real time problems
- Accomplish client side customization as per the company's requirement
- Understand Aladdin platform that is used by the organization
- Provide and analyze analytics and data for BlackRock to use internally when making investment decisions

4. Methodology:

The project is carried out in into following parts

➤ Understanding of WPF fundamentals

- o Learning basics of the language including syntax.
- Getting familiar with Visual Studio environment and developing basic applications using C# and XAML.

➤ Highly Available Commercial Real Estate Data

- o Commercial Real estate data available in highly customizable self-serving form.
- Contribute towards enhancements in the current .Net based risk management application and carving out the functionalities applicable for the web.

➤ Workflow Automation for Monthly CMBS updates and new Deal Setup

- O Understanding the existing tool used in the risk management system.
- o Partner with the collateral team in building an efficient solution to facilitate the data management process.

o Contribute towards the scripting and integration of process to the pipelining tool.

➤ Model re-estimation and visualization

- o Partner with the Financial Modeling Group to build the visualization framework.
- o Contribute towards visualization framework and model re-estimation.

5. Project Schedule:

Jan 2017: Induction and Internal Java Development Certification Module-1.

Feb 2017: Internal Java Development Certification Module-2 and Module-3. Project scoping (Setting project objectives).

March 2017 – June 2017:

- Working on customization's as per the team requirements.
- Complete understanding of the risk management system and all the frameworks related to it.
- Complete understanding of commercial mortgage backed securities and securitization process.

6. References:

- BlackRock Internal Documents and Documentation
- APRESS Beginning ASP.NET 4.5 In C#
- Financial Markets course
- WPF tutorial

Project Details

	Student Detai	ls	
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	Project Detail	0	
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Project Title	Risk Management System		
Project Duration	24 weeks	Date of reporting	16/01/2017
	Organization De	tails	
Organization Name	BlackRock Inc.		
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