Institute for Development and Research in Banking Technology

(Established by Reserve Bank of India)

Castle Hills, Road No. 1, Masab Tank, Hyderabad-57, India.

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e-Programme on

API DEVELOPMENT
NOVEMBER 15 – 18, 2022

Introduction

APIs are entry points or programming artefacts to access a business functionality. They help complete complex processes that are dependent on the business processes of other organisations. APIs are enablers of Straight Through Processing, alleviating the need for cumbersome insecure file upload and download. Banks have been consuming the APIs

(Application Programming Interfaces) offered by agencies like AADHAR and NPCI. However, banks may have to open up their APIs such that other businesses can easily develop applications weaving their bank inside their business processes. Web services technology represents an important way for businesses to communicate with each other. While web services (REST) are programmatic interfaces, XML and JSON are the languages that define the data transmitted between the applications. This program focusses on how to design and deploy APIs using latest technologies available.

Objectives

- To bring awareness about API development
- To discuss and demonstrate the simplicity and power of the technologies like XML, JSON, REST, etc. with hands-on labs/Demos.

Contents

- SOA– Introduction
- Introduction to Middleware
- Mark-up Languages – Introduction
- XML, XSD, XBRL etc.
- JSON
- Designing SOAP based APIs
- Designing REST based APIs
- API Life Cycle
- API Management
- API Security

Mode of Teaching

The program will have four live webinars. One webinar will be held at each day of the program. Duration of each webinar will be one hour. Additional study materials will be made available in the form of text and video lectures. Participants can go through those materials offline.

Who Can Participate?

Developers as well as officers in IT function involved in design, deployment and maintenance of information systems

End Use:

Participants would be able to appreciate the power of API; can ensure better design, development, management and seamless integration of APIs, into internal and external business processes.

Programme Coordinator:

Dr. V. Radha, Associate Professor, IDRBT; e-mail: vradha@idrbt.ac.in

Fees:

For Indian Participants

- RRBs & Coop Banks: Rs. 11,800/- (Rs. 10,000/- + 18% GST)
- All Other Banks & Financial Institutions: Rs. 14,750/- (Rs. 12,500/- + 18% GST)

For International participants

- US $ 220 (per participant, All inclusive)

Bank Account Details for Remittance of Fees

The fees for this e-programme can be remitted to the following accounts:

For Indian Participants

Account Name :   IDRBT
Bank & Branch :   Axis Bank Limited, Humayun Nagar, Mehdipatnam, Hyderabad
Account No.   :   426010100018823
MICR Code   :   500211012
IFSC Code   :   UTIB0000426

For International participants

Receiver's Correspondent Bank   :   JP Morgan Chase, New York, USA
Swift Code   :   CHASUS33XXX
Fed Wire Routing Number   :   ABA 021000021
Beneficiary Bank & Branch   :   Axis Bank Ltd., Mumbai, India
Account Number   :   0011407376
Beneficiary Bank Swift Code   :   AXISINBB

Ultimate Beneficiary

Account Name   :   IDRBT
Customer ID   :   030021632
Account No.   :   426010100018823
Bank & Branch   :   Axis Bank Ltd., Jubilee Hills, Hyderabad, India. (AXISINBB030)

Nominations

Banks may nominate any number of participants to these e-Programmes, which may be accepted on a first-cum-first-served basis. While nominating, please provide the details of the participants (Name, Designation, Bank, Mobile No/Phone No, email address, fees billing address, GST No. of the Bank).

Apart from nominations by banks, staff members of banks can self-nominate themselves for these e-Programmes by providing their employee credentials and paying the programme fee latest by **November 14, 2022**.

How to Register

The nominations for these e-Programmes, and queries if any, may please be sent to
eprogram@idrbt.ac.in. Please visit *https://www.idrbt.ac.in/eprogrammes* for more details about these programmes*.

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e-Programmes in November 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Explainable AI/ML for Banking	14 – 17	Dr. V. Ravi	**Nov 11, 2022**
2	API Development	15 – 18	Dr. V. Radha	**Nov 14, 2022**
3	Introduction to Post-Quantum Cryptography	15 – 18	Dr. P. Syam Kumar	**Nov 14, 2022**
4	Distributed Ledger Technology and Banking Applications	21 – 24	Dr. N. V. Narendra Kumar	**Nov 18, 2022**
5	Proactive Cyber Defence Strategies	22 – 25	Dr. Dipanjan Roy	**Nov 21, 2022**
6	Emerging Banking Technologies	22 – 25	Dr. Rajarshi Pal	**Nov 21, 2022**
7	Inside Threats - Detection and Prevention Techniques	Nov 29 – Dec 02	Dr. B. M. Mehtre	**Nov 28, 2022**
8	Introduction to Governance, Risks and Compliance	Nov 29 – Dec 02	Dr. Abhishek Thakur	**Nov 28, 2022**
9	Future of Innovative Smart Banking	Nov 29 – Dec 02	Dr. Susmita Mandal	**Nov 28, 2022**

e-Programmes in December 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Technologies for Financial Inclusion	05 – 08	Dr. M. V. N. K. Prasad	**Dec 02, 2022**
2	RBI Guidelines on Cyber Security	06 – 09	Dr. Dipanjan Roy	**Dec 05, 2022**
3	Re-envisioning Digital Banking Systems	13 – 16	Dr. Susmita Mandal	**Dec 12, 2022**
4	Big Data and Cloud	19 – 22	Dr. P. Syam Kumar	**Dec 16, 2022**
5	Continuous Security Validation	20 – 23	Dr. V. Radha	**Dec 19, 2022**
6	Applications of Dark Web	27 – 30	Dr. B. M. Mehtre	**Dec 26, 2022**
7	Cyber Security for Remote Working Scenario	27 – 30	Dr. Rajarshi Pal	**Dec 26, 2022**