



Institute for Development and Research in Banking Technology

(Established by Reserve Bank of India)

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

e-Programme on

API DEVELOPMENT

AUGUST 23 – 26, 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, Mehdiapatnam, 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 **August 23, 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.

e-Programmes in August 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Privacy Preserving Machine Learning for Banks	01 – 04	Dr. V. Ravi	July 29, 2022
2	RBI Guidelines on Cyber Security	01 – 04	Dr. Dipanjan Roy	July 29, 2022
3	Distributed Ledger Technology and Banking Applications	16 – 19	Dr. N. V. Narendra Kumar	Aug 12, 2022
4	Virtualization and Cloud Computing	16 – 19	Dr. P. Syam Kumar	Aug 12, 2022
5	Mobile Banking Security and Testing	17 – 20	Dr. V. N. Sastry	Aug 12, 2022
6	Applications of Dark Web	23 – 26	Dr. B. M. Mehtre	Aug 22, 2022
7	Emerging Cyber Security Practices	23 – 26	Dr. Rajarshi Pal	Aug 22, 2022
8	Threats to Digital Payment Ecosystem	23 – 26	Dr. Susmita Mandal	Aug 22, 2022
9	API Development	23 – 26	Dr. V. Radha	Aug 22, 2022

e-Programmes in September 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Cyber Forensics for Cyber Defence	06 – 09	Dr. B. M. Mehtre	Sep 05, 2022
2	Introduction to Hardware Security	13 – 16	Dr. Dipanjan Roy	Sep 12, 2022
3	Privacy and Security Risks in Machine Learning	13 – 16	Dr. Rajarshi Pal	Sep 12, 2022
4	Data Centre Management	19 – 22	Dr. P. Syam Kumar	Sep 16, 2022
5	Big Data Analytics for Banks	19 – 22	Dr. V. Ravi	Sep 16, 2022
6	Emerging AI/ML Technologies	26 – 28	Dr. Mridula Verma	Sep 23, 2022
7	Secure Coding Practices	27 – 30	Dr. V. Radha	Sep 26, 2022
8	Secure Financial Infrastructure	27 – 30	Dr. Susmita Mandal	Sep 26, 2022