



# 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

June 28 – July 01, 2022

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### 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](mailto: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 **June 27, 2022**.

## How to Register

The nominations for these e-Programmes, and queries if any, may please be sent to [eprogram@idrbt.ac.in](mailto: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 June 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Privacy Preserving Machine Learning for Banks	06 – 09	Dr. V. Ravi	June 03, 2022
2	Distributed Ledger Technology and Banking Applications	06 – 09	Dr. N. V. Narendra Kumar	June 03, 2022
3	5G Use Cases and IoT Applications for Banks	06 – 10	Dr. V. N. Sastry	June 03, 2022
4	Threats to Digital Payment Ecosystem	07 – 10	Dr. Susmita Mandal	June 06, 2022
5	Technologies for Financial Inclusion	07 – 10	Dr. M.V.N.K. Prasad	June 06, 2022
6	Emerging AI/ML Technologies	13 – 16	Dr. Mridula Verma	June 10, 2022
7	Workshop on Registration Authority Operations	14 – 17	Dr. N. P. Dhavale	June 13, 2022
8	Privacy and Security Risks in Machine Learning	14 – 17	Dr. Rajarshi Pal	June 13, 2022
9	RBI Guidelines on Cyber Security	20 – 23	Dr. Dipanjan Roy	June 17, 2022
10	Introduction to Containers	21 – 24	Dr. P. Syam Kumar	June 20, 2022
11	Targeted Attacks - Detecting in Early Stages	21 – 24	Dr. B. M. Mehtre	June 20, 2022
12	API Development	Jun 28 – Jul 01	Dr. V. Radha	June 27, 2022