Dr. S.R. RANGANATHAN
1892 - 1972

LAUNCH OF NFC-BASED MOBILE APPS FOR LIBRARY MANAGEMENT
ON
NATIONAL LIBRARIAN'S DAY,
12TH AUGUST, 2022
BY
HON'BLE MEMBER, NEC
&
SECRETARY, NEC
IN THE PRESENCE OF
DDG & SIO, NIC, MEGHALAYA

TIME: 10:00 A.M.,
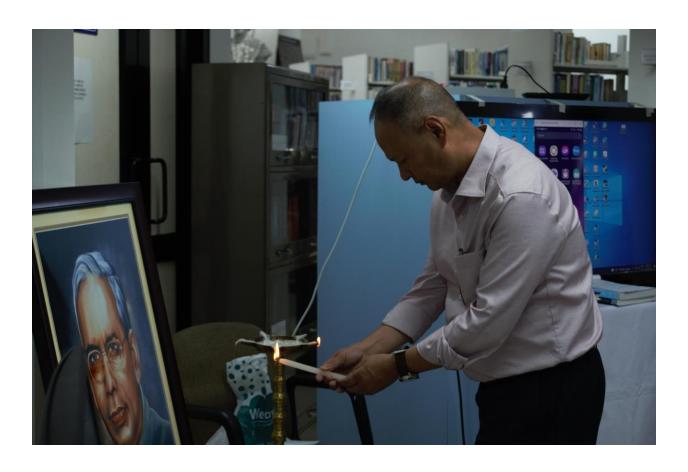### VENUE: NEC LIBRARY

NFC-BASED MOBILE APPS
(PART OF E-GRANTHALAYA SUITE OF APPLICATIONS)
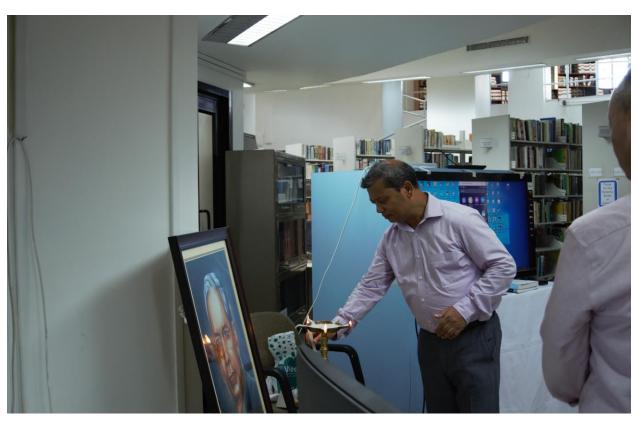### DESIGNED AND DEVELOPED BY NATIONAL INFORMATICS CENTRE
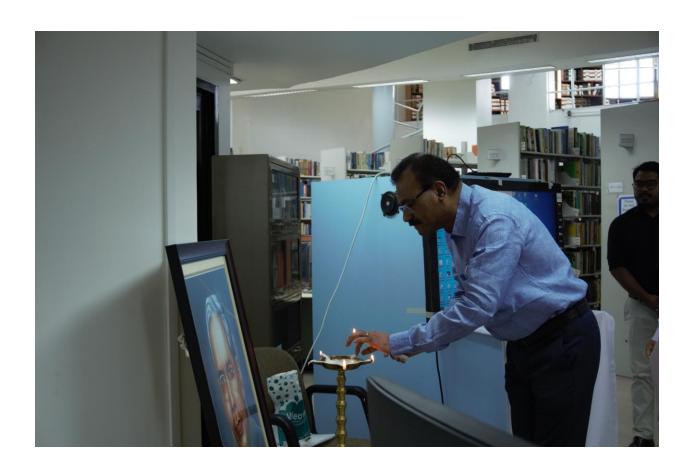### MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
GOVERNMENT OF INDIA

Sl.No.	Name of App	App icon	Purpose and Description	Target Audience/Users
1.	eGranthalaya Book & Member Tag Registration		To register or de-register books and library members using NFC technology (tagging)	Librarians and Library Staff
2.	eGranthalaya Book Check Out System		To issue books to registered library members by tapping the NFC-equipped mobile device on NFC or RFID-tagged books which are being issued to members.	Librarians and Library Staff ORself issue, provided app is installed on library member's mobile device and the device is equipped with NFC and NFC is enabled.
3.	eGranthalaya Book Return System		To return the books borrowed / loaned to registered library members by tapping the NFC-equipped mobile device on NFC or RFID-tagged books which are being returned to the Library.	Librarians and Library Staff ORself return, provided app is installed on library member's mobile device and the device is equipped with NFC and NFC is enabled.
4.	eGranthalaya Book Search & Count		To search for a book in the library by scanning the book shelves of RFID or NFC-tagged books using an NFC-equipped mobile device. In a similar manner, a count (inventory) of books can be taken by simply scanning the book shelves	Librarians and Library Staff ORself search, provided the app is installed on user's mobile device and the device is equipped with NFC and NFC is enabled.
5.	eGranthalaya NFC Book Search BT		To search for a book in the library by scanning the book shelves of RFID or NFC-tagged books using a Bluetooth-equipped mobile device in conjunction with a RFID/NFC handheld reader having a Bluetooth interface.	Librarians and Library Staff ORself search, provided the app is installed on user's mobile device and the device is equipped with Bluetooth and Bluetooth is enabled. In addition the handheld reader would be required and provided by the Librarian. Requires user's mobile device to have Bluetooth switched ON and paired with the RFID/NFC handheld reader.

Common requirements for all the above apps

1. eGranthalaya Library Management Software & Database from NIC
2. APIs/Web services for connectivity of the mobile apps to eGranthalaya Database
3. Local mobile hotspot connected to local LAN or a VPN connection.

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E-GRANTHALAYA NFC-BASED MOBILE APPS ARCHITECTURE