UGC-HEQEP Sub-Project

**Higher Education Quality Enhancement Project (HEQEP)**
**Academic Innovation Fund (AIF)**
**Sub-PROJECT COMPLETION REPORT:**

**Sub-PROJECT DESCRIPTION**

CP No.: #3654

| | |
|---|---|
| **Name of the Sub-Project.** | e-Capabilities Enhancement of the SBAU Library for Learning, Teaching and Research Development |
| **University (Name, Address, Location, Website)** | Sher-e-Bangla Agricultural University<br>Sher-e-Bangla Nagar, Dhaka-1207<br>www.saulibrary.edu.bd |
| **a) Executing Entity (Department/Faculty/Institute/Center/University)** | Sher-e-Bangla Agricultural University Library |
| **b) Name of SPM/ISM** | **Dr. Md. Anwarul Islam** |

**Objectives of the Sub-Project as per CP**

**General Objectives of the Sub-project :**

1. Library Automation through Integrated Library Management Systems (ILMS) & Creating Digital Institutional Repository (DIR, e-Contents management through Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH) tools and a customized federated search engine to search data or contents from the ILMS, DIR and Harvester from a single search box.
2. Creation dynamic web page and an intranet to disseminate the library facilities among its user as an outreach library services with OPAC, DIR, Harvested Metadata, Federated search and general library information.
3. Enhancing the electronic security and e-surveillance capacities through RFID and CCTV in the library of SBAU.
4. Enhancing existing service quality of SBAU Library.
5. Ensuring the greater accessibility on e-contents through OPAC, DIR and Metadata Harvesting tools.
6. Creating favourable environment to support learning, teaching and research activities.

**Specific Objectives of the Sub-project:**

**1. Developing Library Management Software:** Developing or customizing an Integrated Library Management System (ILMS) based on Machine Readable Cataloguing (MARC) standard. This automation (ILMS) will provide the followings –

- OPAC (Online Public Access Catalogue) to its users and remote interested patrons

(interested users) through LAN and WAN.

- Borrowers services will be managed by IT including Charging and Discharging of the library materials including automated fine calculation.
- Users will be able to know their own borrowing status and they will also be able to reserve or hold their interested books by their *user name* and *password*.

**2. Digitization of Resources:** A Digital Institutional Repository (DIR) will be introduced to preserve the theses, dissertations (Masters and PhD level) of SBAU and scholarly articles published in the Journals of SBAU. The hard copies of these materials will be scanned with OCR (Optical Character Recognition) conversion systems. This proposed digital repository will provide its contents to-

- Serve the students, teachers, scholars and interested patrons nationally and globally as an *Open Archives Initiative* (OAI).

**3. Harvesting Metadata for users:** An Open Archive Harvester software will be installed and customized to accumulate and index freely available metadata [OAI-PMH (Open Archives Initiative Protocol for Metadata Harvesting)] providing a searchable, web-based interface.

- Creating own metadata harvester, which can be focused on agricultural and allied disciplines and sciences. A user will get a wide and world wide collection of e-resources from this single platform.

**4. Federated Searching:** Federated search came about to meet the need of searching multiple disparate content sources with one query. This allows a user to search multiple databases at once in real time, arrange the results from the various databases into a useful form and then present the results to the user.

- The federated search engine will be enabled to search OPAC of LMS, DIR and Harvester from a single platform. So, the users will get their search result from 3 individual databases.

**5. Web and intranet:** Having plan to create dynamic web page and intranet to reach the patrons with the e-facilities of libraries.

- The patrons will get OPAC of ILMS, DIR, Harvested Metadata collection, Federated Searching Facilities and General Information update through web and intranet.

**6. Developing e-security for library materials and service enhancement by RFID:** To enhance the security for library materials from theft, the RFID (Radio-Frequency Identification) technology will be established. This service will also provide automated charging and discharging system, shelf management system, etc.

**7. Building e-surveillance by CCTV:** To setup CCTV (Closed-Circuit Television) to enhance the security and surveillance capacities of the library.

**8. Arrangement of Training:** Organizing training programmes, seminars, workshops or meeting on library management software, networking, web and e-resources to enrich the knowledge of the library professionals and staffs to enhance the quality of the library services.

**Sub-Project Budget:**

**(In lakh Taka)**

| Source (s) | Budget Amount (as per the original CP) | Budget Amount (as per latest revised CP) | Disbursed Amount | Actual Expenditure | Remarks/ Reasons for Cost Over-run/Reappropriation /Underutilization |
|---|---|---|---|---|---|
| | (a) | (b) | (c) | (d) | (e) |
| AIF Grant | 100.00 | 100.00 | 99.00 | 98.96 | Underutilization is negligible |

**Date of Contract Signing and Revising Plan**

| | | |
|---|---|---|
| (a) Original CP | 97 | 16/06/2015 |

| | |
|---|---|
| (b) Latest Revised Plan | Financial re-appropriation on= Mar, 2016<br>Revised procurement plan = Mar, 2016 |

**Implementation Period:**

| | **Date of Commencement (dd/mm/yyyy)** | **Date of Completion (dd/mm/yyyy)** |
|---|---|---|
| (a) Original CP | 01/07/2014 | 30/06/2016 |
| (b) Latest Revised | Not applicable | Not applicable |
| (c) Actual | Not applicable | Not applicable |

**IMPLEMENTATION POSITION**

**Implémentation Péridot:**

| Implementation Period (in number of months) | | | Time Over-run | Reasons for Extension of Project Period / Delayed Completion |
|---|---|---|---|---|
| Original CP | Latest Revised | Actual | | |
| 1 | 2 | 3 | 4 = 3 - 1 | 5 |
| 24 months | 24 months | 24 months | 0 month | N/A |

**Cost of the Sub-Project (Source-wise):**

**(In lakh Taka)**

| Source (s) | Budget Amount (as per the original CP) | Budget Amount (as per latest revised CP) | Disbursed Amount | Actual Expenditure | Remarks/ Reasons for Cost Over-run/Reappropriation /Underutilization |
|---|---|---|---|---|---|
| | (a) | (b) | (c) | (d) | (e) |
| AIF Grant | 100.00 | 100.00 | 99.00 | 98.95 | Underutilization is negligible |
| Matching Fund (for private university only) | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Other Fund ( ) | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

**Procurement of Goods, Works and Consultancy Services:**

**Procurement of Goods and Works of the Project:**

| Package No. | Description of Goods / Services | Completion Date of Works/Supply of Goods | | Description of Issues / Challenges (e.g., delays, cost over-run, management, etc.) |
|---|---|---|---|---|
| | | As per the original CP | Actual completion | |
| 1 | 2 | 7 | 8 | 9 |
| W-1 | Refurbishing & Renovation works for SBAU Lib. W-1 | 15/10/2014 | 17/09/2015 | |
| W-2 | Refurbishing & Renovation works for SBAU Lib. W-2 | 24/05/2016 | 23/06/2016 | |

| | | | | |
|---|---|---|---|---|
| G-4 | RFQ (Procurement of Desktop, Laptop and Printer and Other items) | 25/09/2014 | 05/07/2015 | |
| G-1 | OTM (Supplying and Installation RFID & Related Accessories) | 12/02/2016 | 25/02/2016 | |
| G-2 | Supplying and Installation of CCTV & Related Accessories | 12/02/2016 | 03/02/2016 | |
| G-3 | Supplying and Installation of Server Computer & Online Ups | 12/02/2016 | 04/02/2016 | |
| G-5 | Procurement of Computer Network Est., Scanner, Multimedia Projector ,PABX, Finger Print Access Control and Related Accessories | 27/04/2016 | 26/05/2016 | |
| G-6 | Procurement of Touch Screen Information KIOSK | 24/05/2016 | 23/5/2016 | |

**Procurement of Consultancy Services:**

| Package No. | Description of Consultancy | Price (in Lakh Taka) | | Man Months | | Description of Issues / Challenges (e.g., delays, cost over-run, management, etc.) |
|---|---|---|---|---|---|---|
| | | As per the original CP | Actual Contract | As per the original CP | Actual completion | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| a) Foreign Consultants | | No | No | | | |
| | | | | | | |
| | | | | | | |
| b) Local Consultants | | No | No | | | |
| | | | | | | |

**Equipment and Facilities:**

**Number of Procured Equipment & Machineries:**

| **Description of Equipment** | **As per the original CP** | **Actual** | **Remarks** |
|---|---|---|---|
| **1** | **2** | **3** | **7** |
| **(a) ICT Equipment** | | | |
| 1. Desktop Computers | 06 | 06 | |
| 2. Laptop Computers | 01 | 01 | |
| 3. Server Computers | 02 | 02 | |
| 4. Multimedia Projectors | 01 | 01 | |
| 5. 42u Server Rack | 01 | 01 | |

| | | | |
|---|---|---|---|
| 6.3KVA Online UPS | 02 | 02 | |
| 5. Printers | 1 | 1 | |
| 6. Scanner | 1 | 1 | |
| 7.RFID Self Check | 01 | 01 | |
| 8. RFID Book Drop | 01 | 01 | |
| 9. RFID Corridor Gate | 01 | 01 | |
| 10.RFID thermal Printer | 02 | 02 | |
| 11. RFID Staff Work Station (pc & UPS | 02 | 02 | |
| 12.Bercode Reader | 02 | 02 | |
| 13.Shelf Management System | 01 | 01 | |
| 14.Manageable Network Switch | 02 | 02 | |
| 15. High speed broad band and internet connection | Lot | Lot | |
| 16. Router/WiFi system | 02 | 02 | |
| 17.Finger Print Access Control | 01 | 01 | |
| 18.PBX Line 12 set with masterset | 01 | 01 | |
| 19.KIOSK | 02 | 02 | |
| 20. CCTV and Related Accessories | Lot | Lot | |
| | | | |
| **(c) Library Materials** | | | |
| 1. Books | No | No | |
| 2. Journals | No | No | |
| 3. Online journal subscription | No | No | |
| 4. Others, specify: | No | No | |
| 4. Others, specify: | No | No | |

Note: The PCR must be attached with a certificate from the Head of the Entity/VC regarding transfer of, i) fixed assets including a list of items; ii) books of account (registers, ledgers, cash books, etc.); & iii) purchase document, vouchers etc.

**Number of Established / Renovated Facilities:**

| Description of Facilities | Newly Established | | Upgraded/Refurbished | | Remarks |
|---|---|---|---|---|---|
| | As per the original CP | Actual | As per the original CP | Actual | |
| 1. Classrooms | No | No | | | |
| 2. Conference Rooms | No | No | | | |
| 3. Lecture Theaters | No | No | | | |
| 4. Auditorium | No | No | | | |
| 3. Computer Labs | No | No | | | |
| 4. Language Labs | No | No | | | |
| 5. Laboratories | No | No | | | |
| 6. Libraries | No | No | | | |
| 7. Others, specify: | No | No | | | |

**Training/ Study Tour / Workshop / Seminar/ Conference Organized by the Sub-Project:**

| Titles and Description of Training /Study tour/Workshop/Seminar/conference | As per the original CP | | Actual | | Remarks |
|---|---|---|---|---|---|
| | Number of participants | Duration (in days/weeks/ | Number of participants | Duration (in days/weeks/ | |

| | | months) | | months) | |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| **(a) Overseas Training** | | | | | |
| | | | | | |
| **(b) In-Country Training** | 15 | 3 Days | 15 | 3 Days | |
| | 25+ 92 | 1 | 25 | 2 Days | |
| **(c) Study tour** | - | - | - | - | - |
| | - | - | - | - | - |
| **(d) Workshop/seminar** | - | - | - | - | - |
| | - | - | - | - | - |
| **(e) Conference (please mention national or international)** | - | - | - | - | - |
| | - | - | - | - | - |

**URL of University/Departmental/Sub-project Website Developed under the Sub-Project**

| URL | Remarks |
|---|---|
| **http://www.saulibrary.edu.bd**<br>**http://opac.saulibrary.edu.bd**<br>**http://archive.saulibrary.edu.bd**<br>**http://pkp.saulibrary.edu.bd** | |

**ACHIEVEMENT OF OBJECTIVES OF THE SUB-PROJECT**

**Achievement of Sub-Project Objectives**

| Specific Objectives as per the original CP | Status(% Achieved) | Description of Achievements Made | Reasons for shortfall, if any |
|---|---|---|---|
| 1. Developing Library Management Software | 100% | 100% biblio records are added | |
| 2. Digitization of Resources | 40% | 40% thesis and dissertations have already been scanned and uploaded in server and rest of the thesis will be scanned step by step | Most recently a scanner has been collected and the working is a continuing process. |
| 3. Harvesting Metadata for users | 80% | Software completed and the work is going on | Agricultural OAI data have been harvested and it is a continuing process. |
| 4. Federated Searching | 20% | Software in on testing mode | Continuing and waiting for getting real IP from ICC Cell of SBAU |
| 5. Web and intranet | 100% | Web updated | Regular update is needed. |
| 6. Developing e-security for library materials and service enhancement by RFID | 100% | RFID chips have been tagged and other related materials have been performing | |

| | | | |
|---|---|---|---|
| 7. Building e-surveillance by CCTV | 100% | CCTV surveillance have made | |
| 8. Arrangement of Training | 100% | | |

**Milestone Achievement**

| | Milestones as per the original CP | Status (% Achieved) | **Reasons for Underachievement, if any** |
|---|---|---|---|
| 1 | Selection sub-project office | 100% | |
| 2 | Procurement of related machineries and equipments | 100% | |
| 3 | Software selection for Integrated Library Management Systems (ILMS) | 100% | |
| 4 | Software selection for Digital Institutional Repository (DIR) | 100% | |
| 5 | Software selection for Harvesting Metadata Tools | 100% | |
| 6 | Software selection for Federated Searching | 100% | |
| 7 | Web and Intranet | 100% | |
| 8 | RFID Systems<br>Installation of RFID system for automatic tracking of library resources. | 100% | |
| 9 | Security Systems:<br>Establishing a CCTV-based central monitoring system. | 100% | |
| 10 | Training:<br>Organizing training and seminars with the expert library professionals and staffs. | 100% | |

**Pictures of the sub-project (before and after implementation pictures, instruments purchased, refurbished labs, research results, facilities built, workshop, training etc) (Please use jpeg format for copying photos):**

**Issue Counter**

**Before**

**After**

**Reference Counter**

**Before**

**After**

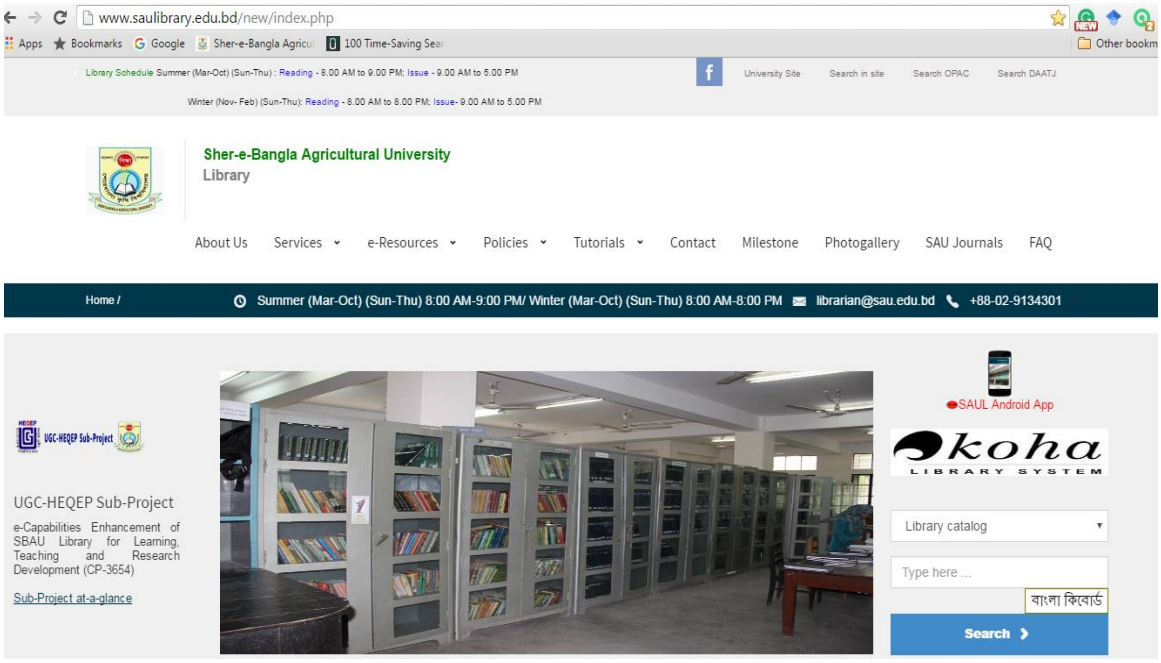
**Changing paradigm**

**Before**

**After**

# Home

[www.saulibrary.edu.bd](http://www.saulibrary.edu.bd)

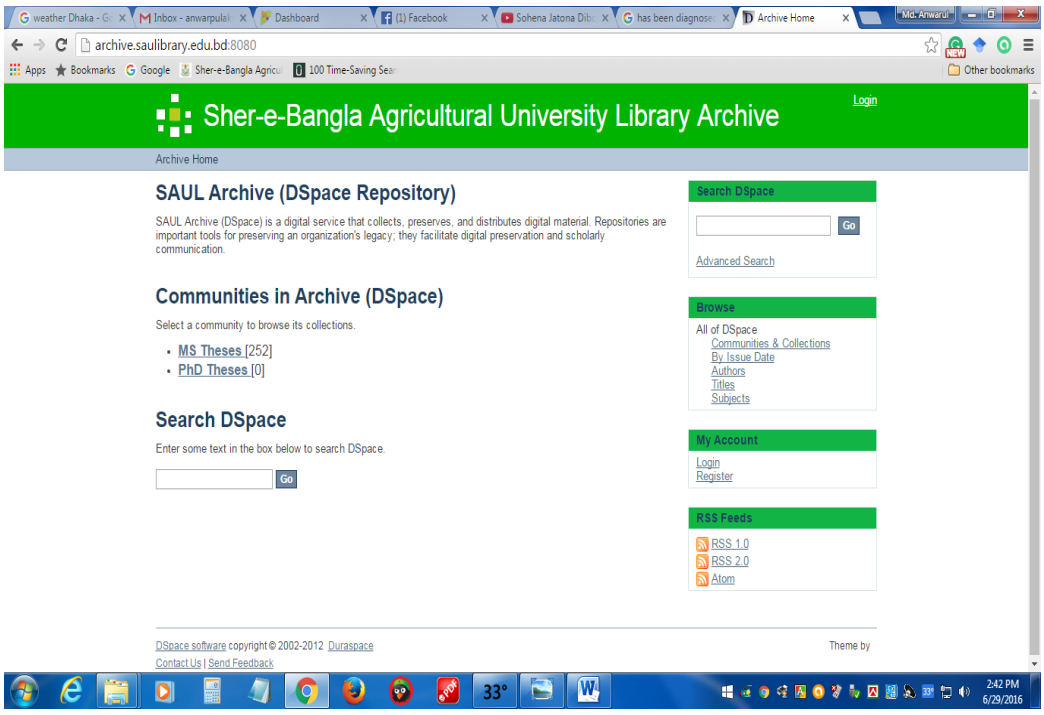


# OPAC

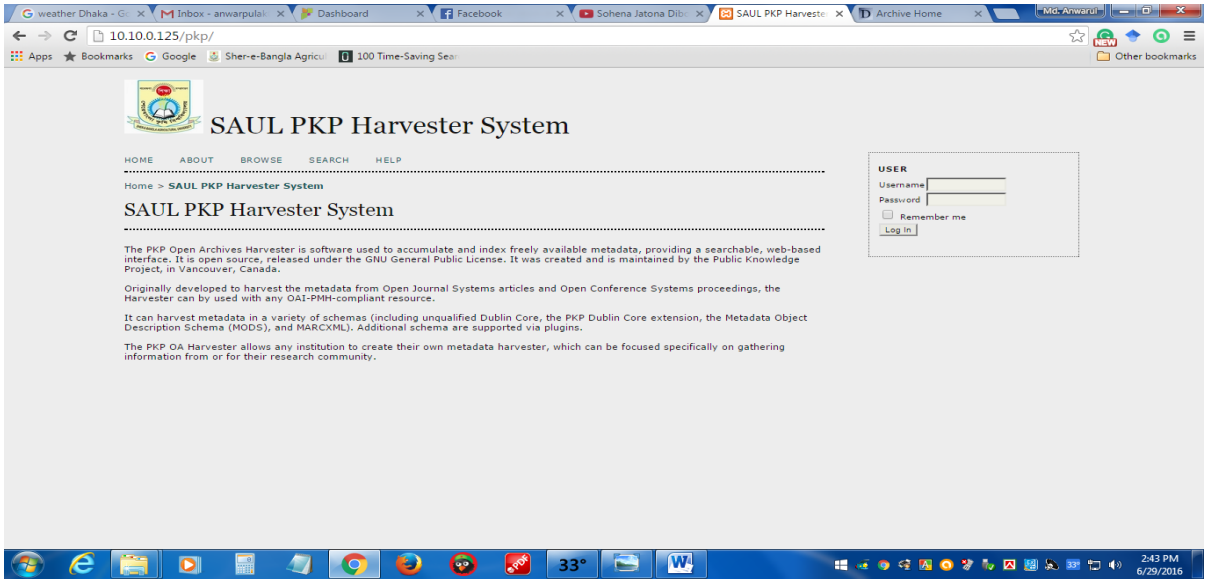
[opac.saulibrary.edu.bd](opac.saulibrary.edu.bd)

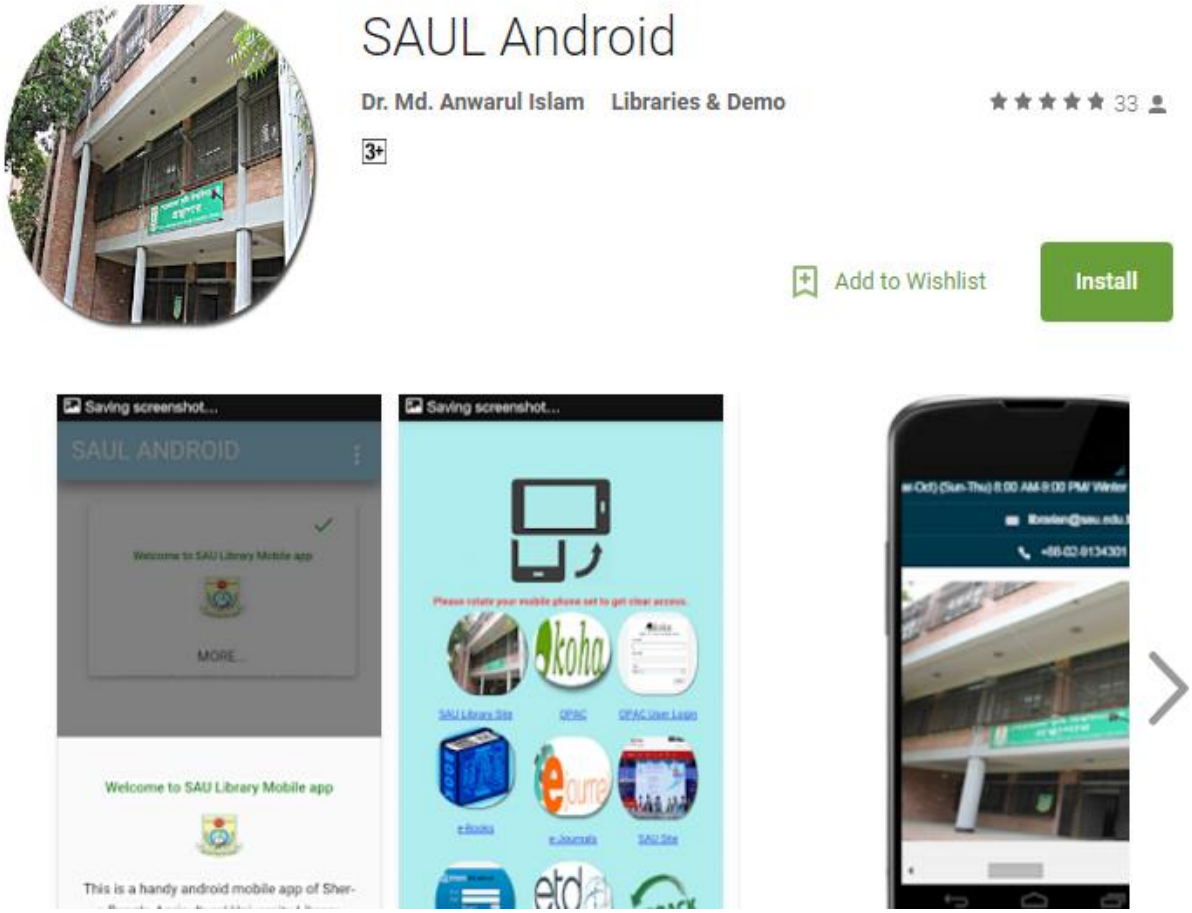
# Archive

[archive.saulibrary.edu.bd](archive.saulibrary.edu.bd)



PKP
http://pkp.saulibrary.edu.bd/pkp




**SAUL Android**

# Electronic Materials

Scanner

CCTV System

PBX Phone

Book Self Check

Book Drop System

RFID Corridor Gate

Shelf Management System

Server & Rack

Access Control

**KIOSK**

Projector