

University Management System

for

National University of Educational Planning and Administration
(NUEPA)

The Organization

- National University of Educational Planning and Administration (NUEPA) established by the Ministry of Human Resource Development, Government of India
- A premier organization dealing with capacity building and research in planning and management of education
- Most of the administrative and functional activities of the University are managed through manual systems.
- Manual systems of administration have inherent limitations

Scope of Project

- Development of an online University Management System for managing the core functional as well as administrative activities of NUEPA
- Facility for students, faculty and staff to register and login to the system as users
- Facility for students to receive alerts on assignments, tests etc
- Facility for faculty to view assignments
- Provide End User Training
- Provide System Administrator Training
- Provide Software Warranty for 12 Months

Proposed Solution

- an ERP class e-Governance application covering the key activities of the University
- Integrated system covering
 - Group I - Administrative Modules
 - Group II - Academic Modules
- Role and Rule based Centralised Web based solution accessible over the net
- Fully customised as per the customer requirements
- Fully on Open Technologies
- Requires only standard browser and internet/intranet connection to access solution.

SOLUTION OVERVIEW

ADMINISTRATIVE MODULES

ADMINISTRATOR MODULE

FILE MANAGEMENT

HR MANAGEMENT

ASSET
MANAGEMENT

FINANCE
MANAGEMENT

PROJECT
MANAGEMENT

INTRANET

PURCHASE &
INVENTORY

DIGITAL ARCHIVE

JOURNAL (JEP) &
PUBLICATIONS
SUBSCRIPTION/
MANAGEMENT

BIOMETRIC
ATTENDANCE

ESTATE
MANAGEMENT

NATIONAL CENTRE

ACADEMIC MODULES

COURSE
MANAGEMENT

STUDENT
MANAGEMENT













FACULTY
MANAGEMENT

EXAMINATION
MANAGEMENT

LIBRARY
MANAGEMENT



 *Work Space*

		
Student	Faculty	Courses
		
Examination	Library	Finance
		
HR	Projects	Asset
		
File	Intranet	Legal

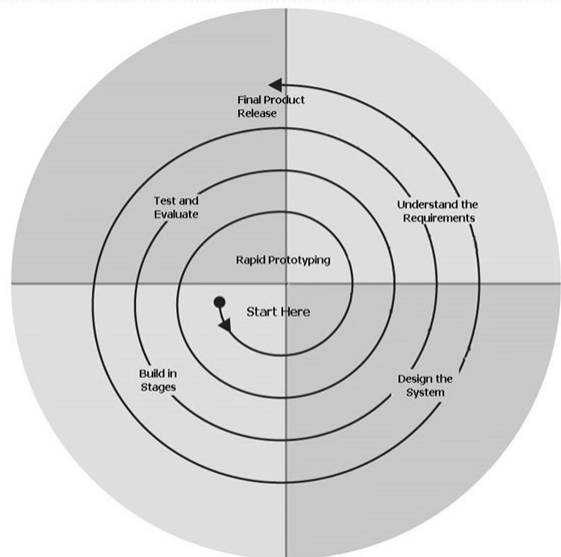
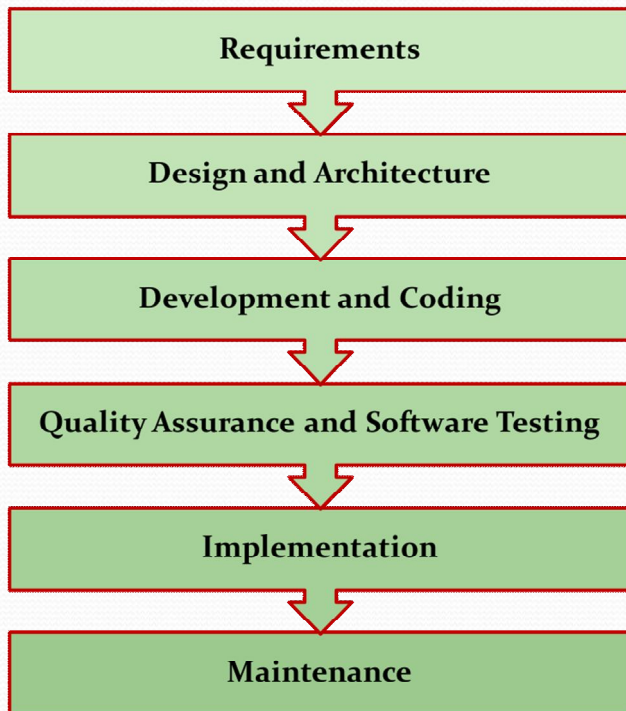
Group I - Administrative Modules

- [File Management / RTI / RTS](#)
- [HR Management](#)
- [Asset Management](#)
- [Finance Management](#)
- [Project Monitoring](#)
- [Intra-Organization Communication System](#)
- [Purchase and Inventory Management](#)
- [Digital Archive](#)
- [Administrator Module](#)

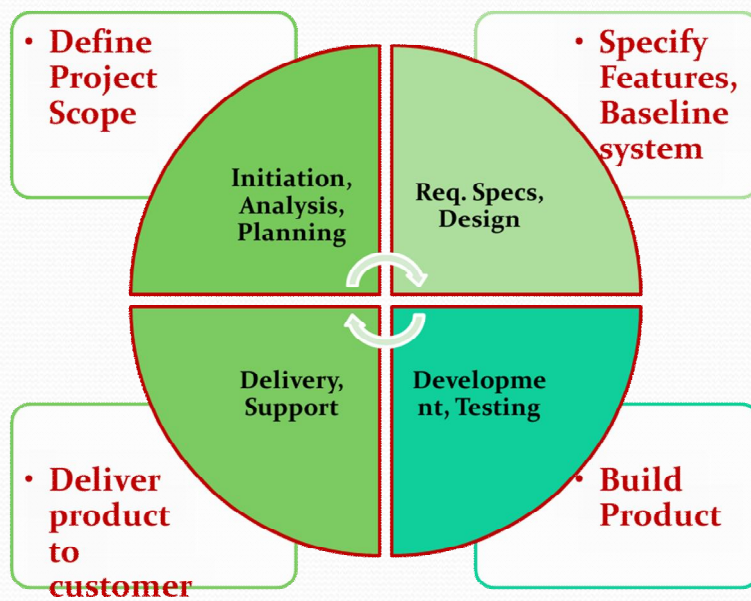
Group II – Academic Modules

- [Course Management](#)
- [Student Management](#)
- [Faculty Management](#)
- [Examination Management](#)
- [Library Management](#)
- [Biometric Attendance System](#)

Project Management Methodology



Quality Assurance



Modules

File Management



- Inward correspondence – registration & routing
- File creation, processing & routing
- File linking
- File closing & archiving
- File travel information
- File take over
- Remote access over internet
- Knowledge base
- Search
- Stock tray
- Call book
- Reminder diary
- Flagging
- Book out
- Facility to receive and issue correspondences through email
- Auto file routing
- Physical file tracking
- Probable date of completion
- File review
- Reports
 - Mail register
 - Register of letters received
 - Outside file register
 - Distribution register
 - File held register
 - Transit register
 - Dispatch register
 - File register
 - File created Register

Human Resource Management



- Appointment
- Employee Information
- Leave
- Payroll
- Transfers & postings
- Promotions
- Disciplinary action
- Training
- Performance & appraisal
- Competency & skills
- Salary bill
- Arrear bill
- Supplementary bill
- Attendance monitoring
- Reports
- Employee profile
- Transfer list
- Promotion list
- Employee list based on designation, office, religion, caste
- Deputation list Leave summary
- Cancelled leave Attendance
- Pay slip
- Retirement list Increment details
- Service details
- Retirement report
- Arrear bill

Asset Management



- Asset Registration: Provision to register the purchased assets including details of purchase order, cost, supplier etc.
- Asset Allotment: Facility to allot registered assets to offices/individuals.
- Asset Transfer: Provision to transfer assets from office to office/person to person/office to person/person to office.
- Asset Maintenance: Facility to capture the maintenance details of assets.
- Asset Disposal: Facility to capture the disposal details of assets.

Finance Management



- A comprehensive solution that aids in automating the financial management functions of the organization
- Provides an end-to-end functionality for managing the complete budgeting lifecycle by facilitating easy preparation of Budget, Budget Allocation and Budget Distribution
- Facility to perform Core Accounting functionalities, Contractor Bills, Receipts Management, Treasury Management etc.
- Modules are Budgeting, Contractor Bill, Core Accounting , Receipts, Treasury, Reports and Graphical Reports

Project Monitoring



- Type of Project
- Executing Agency
- Stake holder details
- Funding details
- Project Status
- Detailed Schedules
- Milestones
- Reviews
- Progress Report

Intra Organization Communication System



- Meetings manager
- Notice board
- Discussion forum
- Diary
- My documents
- Directory
- Resource request
- Greetings / messages
- Holiday notification
- Office notes
- Mail Suite

Purchase and Inventory System



- Indent details
- Item master
- Vendor listing
- Enquiry details
- Quote details
- Purchase Order details
- Goods Received Note (GRN)
- Stock entry
- Stock transfer
- Item issue
- Stock position
- Re-order level / Safe stock monitoring
- Ageing analysis
- Period wise PO listing
- Vendor wise PO listing
- Item wise stock report
- Stock out statement
- List of fast / slow moving items

Digital Archive



It is proposed to implement an industry standard solution like DSpace. The broad functionalities are

- Repository of different type of documents
- Facility will be provided to add new document by the Administrator
- Parameterized search based on Type, Subject, Date, Key Words, Department etc.
- Facility will be provided to generate reports on the Number of Documents in the
- Database based on Type, Number of Documents added during a period
- Maintain different versions of documents

Administrator Module



- Facility to create office, group or department
- Facility to add new seat
- Facility to create user
- Facility to assign roles and privileges to the user
- Facility to de-activate a user
- Facility to remove a user
- Facility to add modules
- Facility to assign modules to the user
- Facility to view the details of active modules user wise and also the history

Course Management



- Facility to add/edit New course
- Facility to add/edit Course name
- Facility to add/edit Course Type
- Facility to add/edit Syllabus details
- Facility to add/edit Course Schedule
- Facility to add/edit Course venue
- Facility to add/edit Course Fee
- Facility to add/edit Batch size
- Facility to add /edit Start date and End date
- Facility to add/edit Course timings
- List of ongoing Courses
- List of upcoming Courses

Student Management



- Facility for students, university staff and college staff to register as users
- Facility to add courses by university staff
- Facility for online application by students
- Facility for online fees submission
- Facility to create time tables and prepare schedules for the staff
- Facility to view status of application/ course
- Facility to view Hall ticket details
- Facility to view results online.
- Facility to view mark list
- Maintains Student Profile

Faculty Management



- Facility to add/edit Name
- Facility to add/edit Qualification
- Facility to add/edit Training
- Facility to add/edit Research
- Facility to add/edit Publications
- Facility to add/edit Student Guidance
- Facility to add/edit Areas of Expertise
- Facility to add/edit Gender
- Facility to add/edit Address
- Facility to add/edit Email address
- Facility to add/edit Phone/mobile number
- Facility to add/edit Subjects handled

Examination Management



- Facility to add/edit Type of Exam
- Facility to add/edit Name of Exam
- Facility to add/edit Date of Exam
- Facility to add/edit Duration of Exam
- Facility to add/edit Hall Allotment
- Facility to add/edit Invigilator Details
- Facility to add/edit Results
- Listing of upcoming Exams
- Exam application details
- Generation of Roll Numbers
- Facility to generate Hall Tickets
- Facility to record exam attendance
- Facility to record Internal Marks
- Moderation details
- Result Publishing
- Generation of Mark list
- Archival of past question papers

Library Management



- It is proposed to implement an industry standard solution like KOHA. The broad functionalities are
 -
 - Book Details
 - Membership Details
 - Issue Details
 - Return Details
 - Book Reservation
 - Penalty Details
 - Search (Title, Author, Publisher, Subject etc)
 - Alerts / Reminders
 - Reports

Biometric Attendance Management



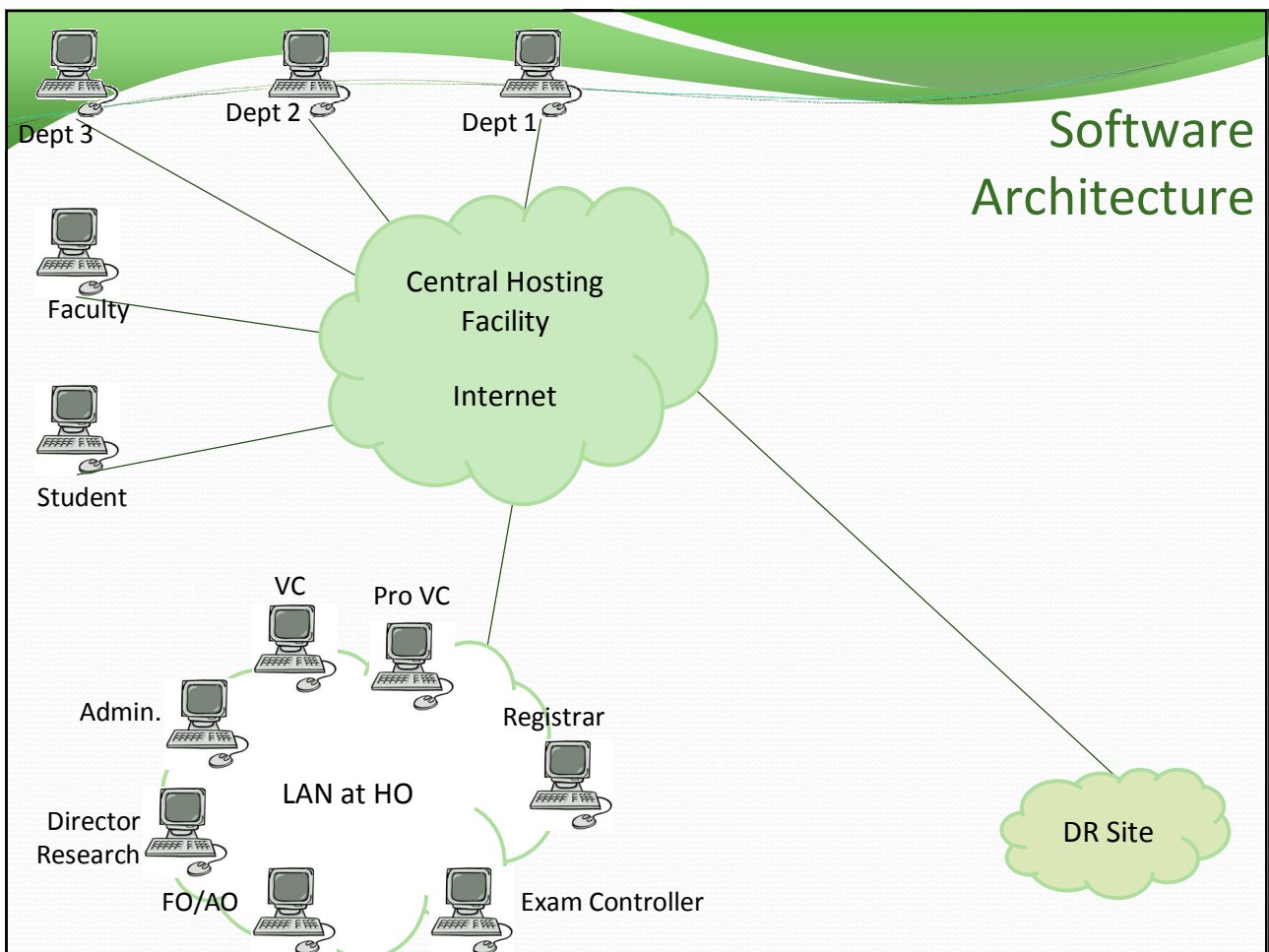
- Also as part of the current phase of the project, a Biometric Attendance System with the following configuration will be installed.
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- Two numbers of WE9 Finger Print & RFID Biometric Reader, 500dpi Scanner, Monochrome Display, USB, Lan, 50000 records, 300 employees, Attendance Management Software. RFID cards (200 Nos) will also be supplied as part of the current proposal.

Proposed Solution Technology

SL. No.	Item Description	Technology Specification
1	Programming Language	Java - Ver. 6
2	Framework	Struts – Ver. 2
3	ORM Tools	Hibernate – Ver. 2.1.7
4	RDBMS	MySQL – Ver. 5.0.41
5	Web Technologies	JSP / Servlets, XML, Ajax, HTML, Java Script
6	Web Services	Tomcat – Ver. 5.5
7	IDE	Eclipse – Ver. 3.5.1

Solution Architecture

- Role and Rule based authentication
- Web based and built on web technologies
- Hosted on a central web server
- User accesses application over internet
- Any standard web-browser like Internet Explorer, Mozilla etc. used to access software application.
- Freely available software, Acrobat Reader may be used to view reports in PDF
- Adequate security features
- Only authorised users can access the application.
- Users can generate reports based on authentication.



Implementation Schedule – Group 1

Project Initiation and Kick-off	2 Weeks From the date of Purchase Order
Submission of Software Requirement Specifications(SRS)	2 weeks from the date of Kick-off
Implementation of Beta Version	4 Weeks from acceptance of SRS
Implementation of Final Version	2 weeks from acceptance of Beta
Fine Tuning and hand over	2 Weeks from acceptance of Final Version

No	Project Phases	W2	W4	W6	W8	W10	W12
1	PLANNING PHASE						
2	SRS PHASE						
3	BETA VERSION DELIVERY PHASE						
4	FINAL VERSION DELIVERY PHASE						
6	TRAINING, FINE TUNING AND HAND OVER PHASE						

Implementation Schedule – Group 2

		Project Initiation and Kick-off			2 Weeks From the date of Purchase Order						
		Submission of Software Requirement Specifications(SRS)			4 weeks from the date of Kick-off						
		Implementation of Beta Version			10 Weeks from acceptance of SRS						
		Implementation of Final Version			2 weeks from acceptance of Beta						
		Fine Tuning and hand over			2 Weeks from acceptance of Final Version						
No	Project Phases	W2	W4	W6	W8	W10	W12	W14	W16	W18	W20
1	PLANNING PHASE										
2	SRS PHASE										
3	BETA VERSION DELIVERY PHASE										
4	FINAL VERSION DELIVERY PHASE										
6	TRAINING, FINE TUNING AND HAND OVER PHASE										

Solution Benefits

- Web based solution accessible from anywhere
- Server based application accessible from any client machine
- Fully built on Open Technologies requiring no proprietary licenses
- Easy to Administer and Maintain
- Easy to make modifications
- Centralized Administration facilitating easy backup and restoration
- Cost-effective
- Lower total cost of ownership

Thank You