Tutor Marked Assignment (TMA) Online Submission and Evaluation System

राष्ट्रीय मुक्त विद्यालयी शिक्षा संस्थान
National Institute of **Open Schooling**
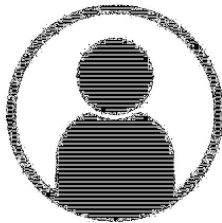*(An autonomous institution under Ministry of Education, Govt. of India)*
(The Largest Open Schooling System in the World) ISO 9001:2008 CERTIFIED

Naveen Bhatia, System Analyst

Key Players in TMA Processing System
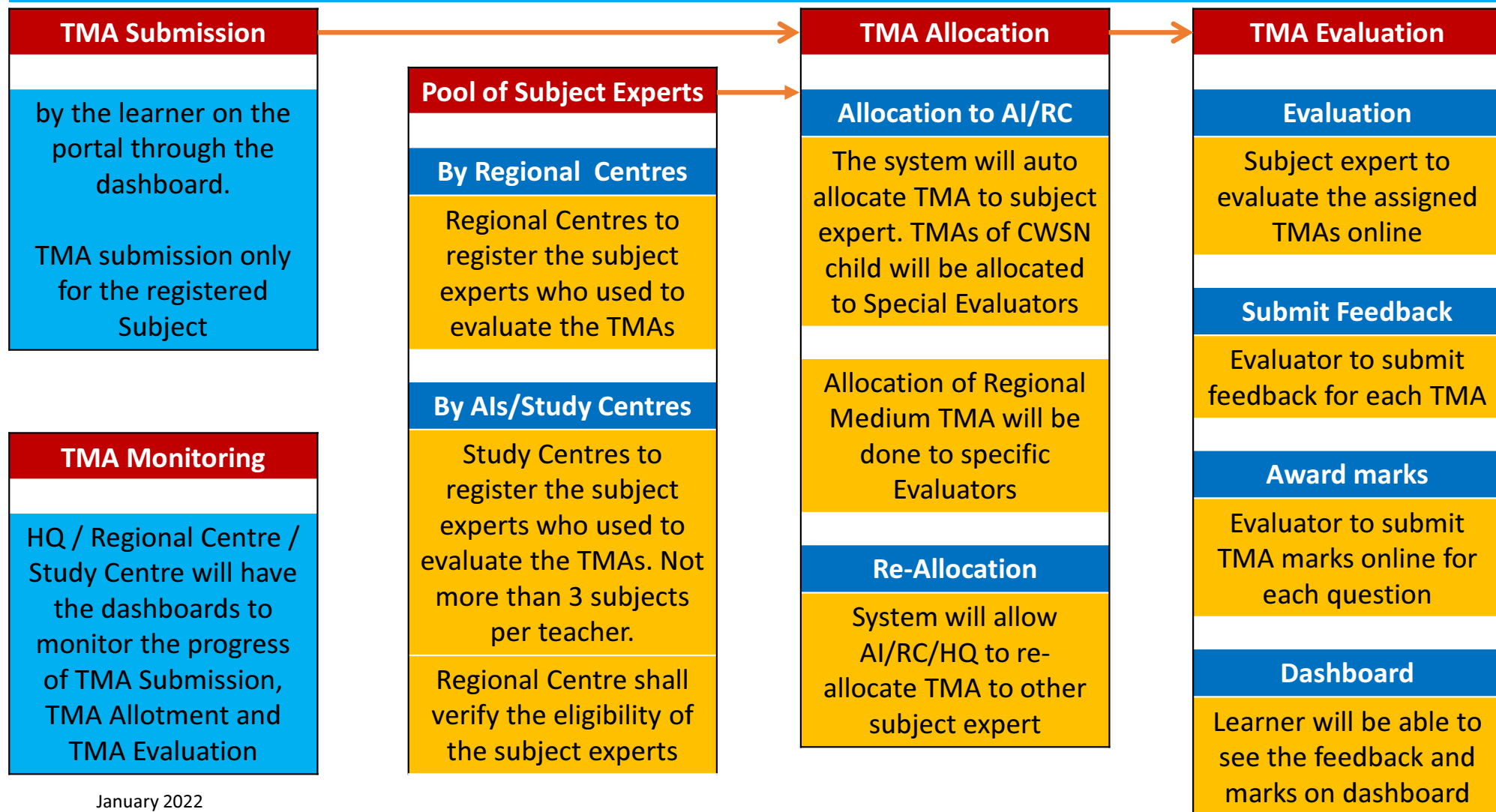
Submission of **Hand written** TMA by Learners
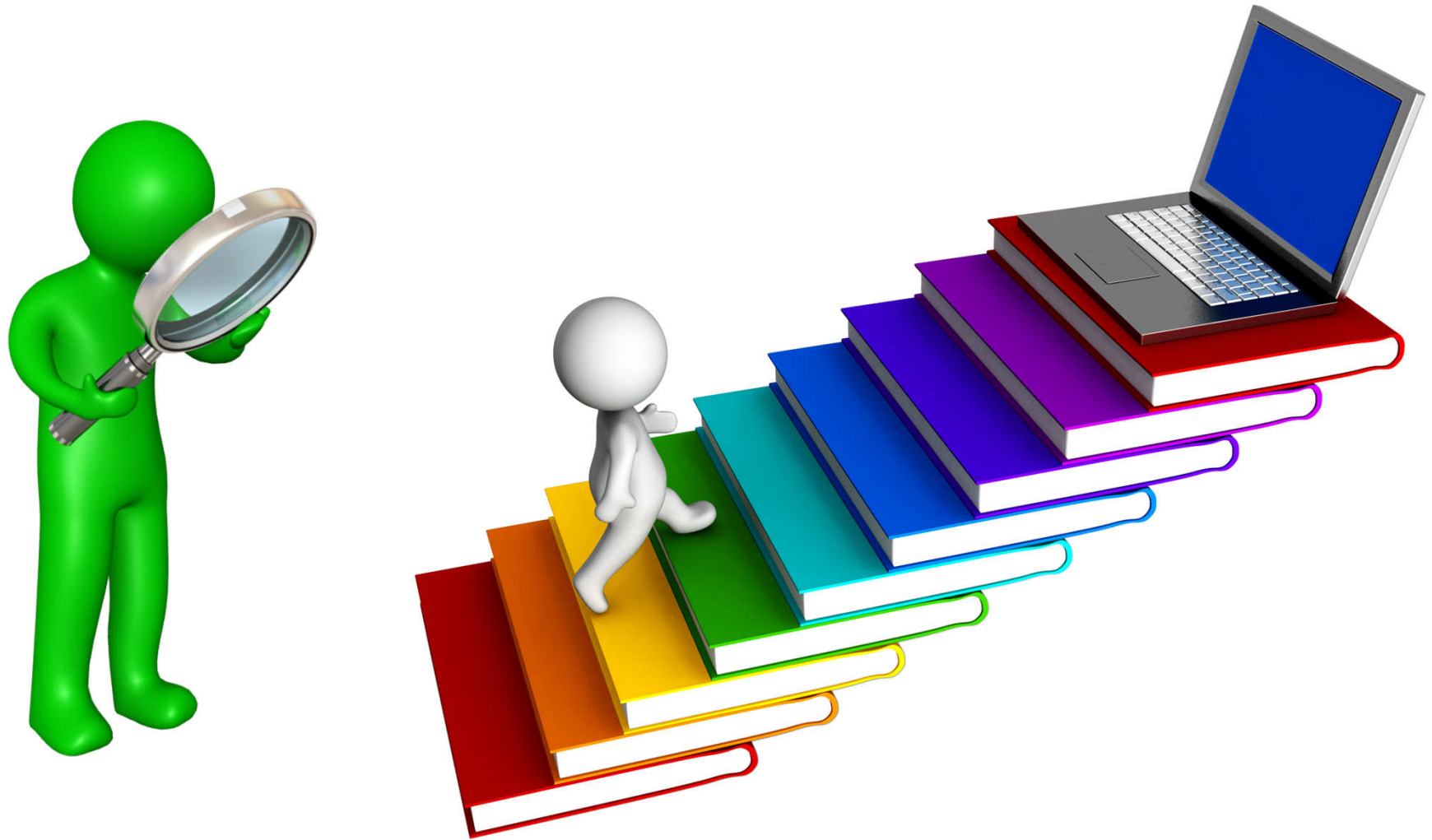
Evaluation of TMA by **Study Centres**

Monitoring by Regional Centres and NIOS HQ

Tutor Marked Assignment (TMA) Online Submission & Evaluation System – HL Diagram

TMA Submission

by the learner on the portal through the dashboard.

TMA submission only for the registered Subject

TMA Monitoring

HQ / Regional Centre / Study Centre will have the dashboards to monitor the progress of TMA Submission, TMA Allotment and TMA Evaluation

January 2022

Pool of Subject Experts

By Regional Centres

Regional Centres to register the subject experts who used to evaluate the TMAs

By AIs/Study Centres

Study Centres to register the subject experts who used to evaluate the TMAs. Not more than 3 subjects per teacher.

Regional Centre shall verify the eligibility of the subject experts

TMA Allocation

Allocation to AI/RC

The system will auto allocate TMA to subject expert. TMAs of CWSN child will be allocated to Special Evaluators

Allocation of Regional Medium TMA will be done to specific Evaluators

Re-Allocation

System will allow AI/RC/HQ to re-allocate TMA to other subject expert

TMA Evaluation

Evaluation

Subject expert to evaluate the assigned TMAs online

Submit Feedback

Evaluator to submit feedback for each TMA

Award marks

Evaluator to submit TMA marks online for each question

Dashboard

Learner will be able to see the feedback and marks on dashboard

Registration of Subject Experts for TMA Evaluation

Registration of Subject Experts – Through Study Centre and Regional Centre

January 2022

Variables Required

- Name
- Date of Birth
- Mobile Number
- Email Address
- Gender
- Aadhaar Number
- Is Retired
- Date of Retirement
- Yrs. of Teaching Experience
- Address/District/State
- Pincode
- Qualification
- University/Degree
- Employment
- Organization Name
- Designation
- Start Date/End Date
- Subjects for TMA Evaluation

Documents Required

- Photo & Aadhaar
- Qualification Proof
- Employment Proof

Registration by AIs

Study Centres to register the subject experts who used to evaluate the TMAs.

Not more than 3 subjects per teacher.

Monitoring by RCs

RCs shall verify the eligibility of subject experts registered by AIs

Registration of Subject Experts – Basic Details

Basic Details

Type

TMA Evaluator ✕

Name

Naveen Bhatia

Email

Email

Mobile

Mobile

Password

Password

Verify Password

Verify Password

Date of Birth

yyyy-mm-dd

Gender

Select Gender

Level

Select Level

Designation

Designation

Experience Year

Experience Years

Aadhaar No

Aadhaar No

Is Retired ? ☐

Registration of Subject Experts – Address

Address

| Permanent Address | Correspondance Address | ☐ Same as Permanent Address |

Permanent Address

House/Door/Flat No ⑦

> House/Door/Flat No

Street/Locality/Area Name ⑦

> Street

Village/Ward No/Landmark ⑦

> Village/Ward No/Landmark

Country

> Select Country ⌄

State/UT

> Select State ⌄

District

> Select District ⌄

Pincode ⑦

> Pincode

Correspondance Address

House/Door/Flat No ⑦

> House/Door/Flat No

Street/Locality/Area Name ⑦

> Street

Village/Ward No/Landmark ⑦

> Village/Ward No/Landmark

Country

> Select Country ⌄

State/UT

> Select State/UT ⌄

District

> Select District ⌄

Pincode ⑦

> Pincode

Registration of Subject Experts – Subjects, Qualifications, Employment details

Subject Details

Subject

Select Subject ⌄

Medium

Select Medium ⌄

ADD

Qualification Details

University

Select University ⌄

Degree

Select Course ⌄

Subject

Subjects

Division

Select Division ⌄

ADD

Employment Details

Office Name

Office Name

Designation

Designation

Start Date

Start Date

End Date

End Date

ADD

Registration of Subject Experts – Documents

Upload Documents

Upload Profile Photo	Upload Aadhaar Photo	Highest Qualification Document	Employment Certificate / Experience Certificate
UPLOAD	UPLOAD	UPLOAD	UPLOAD

Regional Centre wise online TMA submission status

SR NO.	REGIONAL CENTRE	TOTAL STUDENTS	TOTAL SUBJECTS	
1	101-HYDERABAD	183	854	January 2022
2	102-PUNE	1407	6869	
3	103-KOLKATA	4081	20832	
4	104-GUWAHATI	2140	10403	
5	105-CHANDIGARH	2368	11202	
6	106-KOCHI	2587	12240	
7	107-DELHI	14014	70312	
8	108-NIOS HQ	17	75	
9	109-JAIPUR	761	3595	
10	110-PATNA	721	3434	
11	111-ALLAHABAD/PRAYAGRAJ	1314	5840	
12	113-BHOPAL	775	3707	
13	114-DEHRADUN	2278	10690	
14	115-BHUBANESWAR	1100	5744	
15	116-VISAKHAPATNAM	115	573	
16	117-BENGALURU	1490	6481	
17	118-GANDHINAGAR	725	3393	
18	119-RAIPUR	123	562	
19	120-RANCHI	806	4026	
20	121-CHENNAI	1456	6674	
21	122-DHARAMSALA	60	287	
22	123-GANGTOK	475	2444	
23	125-JAMMU	302	1429	
	TOTAL	39298	191666	

Monitoring of TMA Allotment and Evaluation

January 2022

Subject wise number of TMAs uploaded by the students - Secondary

Sr. No.	Subject	Total TMA
1	201-Hindi	719
2	202-English	755
3	203-Bengali	2
4	206-Urdu	25
5	209-Sanskrit	15
6	210-Punjabi	3
7	211-Mathematics	262
8	212-Science and Technology	307
9	213-Social Science	553
10	214-Economics	75
11	215-Business Studies	83
12	216-Home Science	467
13	222-Psychology	31
14	223-Indian Culture and Heritage	58
15	224-Accountancy	13
16	225-Painting	443
17	229-Data Entry Operations (E)	397
18	235-Arabic	3
19	242-Hindustani Music	7
20	243-Carnatic Sangeet	1
21	246-Sanskrit Vyakaran (Sanskrit or Hindi Medium Only)	3
22	247-Bharatiya Darshan (Sanskrit or Hindi Medium Only)	2
23	248-Sanskrit Sahitya (Sanskrit or Hindi Medium Only)	9
	Total	4233

Subject wise number of TMAs uploaded by the students - Sr. Secondary

Sr. No.	Subject	Total TMA
1	301-Hindi	1223
2	302-English	1507
3	303-Bengali	1
4	306-Urdu	26
5	309-Sanskrit	13
6	310-Punjabi	3
7	311-Mathematics	259
8	312-Physics	360
9	313-Chemistry	361
10	314-Biology	227
11	315-History	623
12	316-Geography	282
13	317-Political Science	751
14	318-Economics	239
15	319-Commerce/Business Studies	197
16	320-Accountancy	131
17	321-Home Science	525
18	328-Psychology	61
19	330-Computer Science	159
20	331-Sociology	209
21	332-Painting	441
22	333-Environmental Science	93
23	335-Mass Communication	62
24	336-Data Entry Operations	504
25	337-Tourism	21
26	338-Introduction to Law	44
27	341-Arabic	9
28	348-Sanskrit Sahitya (Sanskrit or Hindi Medium Only)	4
29	373-Physical Education and Yog	267
30	374-Military Studies	2
31	375-Military History	6
32	376-Early Childhood Care and Education	9
	Total	8619

Holy International Sr. Sec. School N/A

- Dashboard
- Student Manager
- Result Summary
- Payment History
- TMA Receiving Manager
- TMA Manager
- Tma Report Subject Wise
- Study Material Dispatch
- Study Center List
- Practical Attendance

Subject Wise Tma Data Status

Subject Name   [Search]   [Reset]

SR NO.	SUBJECT CODE	SUBJECT NAME	TOTAL STUDENTS
1	201	Hindi	7
2	202	English	6
3	209	Sanskrit	1
4	211	Mathematics	3
5	212	Science and Technology	2
6	213	Social Science	5
7	214	Economics	3
8	215	Business Studies	3
9	216	Home Science	3
10	224	Accountancy	1
11	225	Painting	

TMA Real-time visible status

TMA Submission Pending	**TMA Uploaded Online**	**TMA Assigned to evaluator**	**TMA unallocated**
TMA Re-allocated	**TMA Evaluated Marks Pending**	**TMA Evaluated Marks Awarded**	**Feedback submitted**
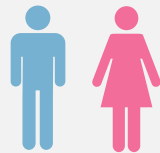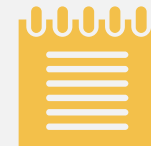
Question wise marks awarding, No re-upload allowed, re-upload through e-services, Comment by Evaluator (if TMA not visible properly)

PCP MIS

PCP

MANAGEMENT

INFORMATION SYSTEM

Highlights of the system

PCP Management Information System

Secure and simple Mode of PCP Centre Allocation and PCP Schedule Preparation

Bespoke customization (Role based access to users – Study Centres, NIOS RC & HQ Officials)

Transparency oriented activity logs and Reports

Integration with Student Dashboard, PCP Hall Ticket, Formative Assessment and PCP Payment

Highlights of the system

PCP Management Information System

Effective PCP Monitoring through PCP Monitoring Mobile App

Online Attendance while conduct of PCP

Upload photos of Conduct of PCP, No Paper submission for PCP Payment

Wipes out all logistics issues, saves cost to NIOS, Reduces monitoring efforts

PCP Portfolio

PCP Centre Allocation	**Upload PCP Schedule**	**PCP Hall Ticket**	**Conduct of PCP**
PCP Monitoring	**PCP Reports**	**PCP Payment**	**PCP Record Management**
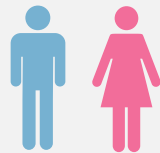
Key Points in PCP Management

Point A

Non-functional or non-viable study centres for PCP will be mapped with nearby functional and viable study centre/Nodal centre by concerned NIOS Regional Centre for the purpose of PCP. While doing PCP Centre Allocation, RC shall take due care as per geographic situation

Point B

There are four steps in the process of uploading the PCP Schedule: Batch Creation, Add Time Table, Add Students to the Batch, View, Verify and Publish the Batch

Point C

List of students registered in the session assigned to the study centre and the list of students of other study centre(s) mapped to the study centre will be available in the Study Centre Dashboard for allotment of the PCP batch

Point D

PCP payment to the study centre will be made only on the conduct of PCP by the study centre for NIOS learners and on uploading the PCP schedule online as per the norms

Point E

IP address, system environment of the device / laptop / computer / mobile IMEI will be monitored for security reasons & for further analysis to improve the system

Process of the system

PCP Management Information System

PCP Centre Allocation (by RC)

PCP Schedule Creation (by AI)

PCP Hall Ticket

Conduct of PCP (by AI)

FA Award entry

PCP Payment

Monitoring of Conduct of PCP (by AF through RC and HQ)
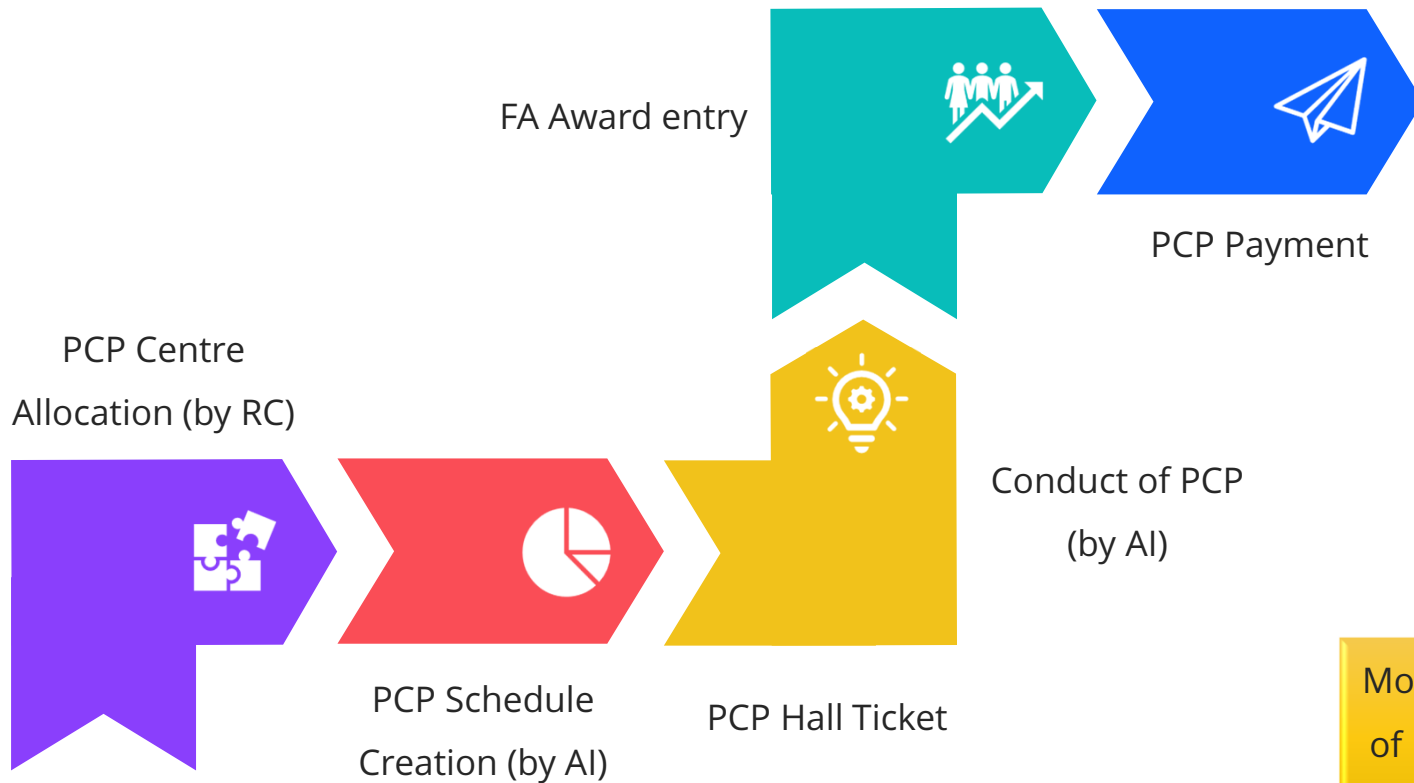
Components & Key Players

PCP Management Information System

**NIOS HQ, RC
&
Study Centres**

Students of NIOS
(PCP Hall Ticket /
SMS / Calls)

Study Centre
(PCP Schedule,
inform students,
conduct PCP)

Regional Centre
(PCP Allocation,
Monitoring through
AF)

NIOS HQ
(Monitoring through
Portal and
Observers)

PCP Monitoring

Android Mobile App

Version 1.0

Minimum functional requirements for PCP monitoring

01   Study Centre must create PCP batches for each session and upload the PCP schedule on the portal from their dashboard

02   Database of Academic Facilitators shall be created on the web portal before implementation of the PCP monitoring system

03   All Study Centres must upload the Geo coordinates of the study centre using the Android Mobile App provided by NIOS

04   Geo fencing : PCP monitoring mobile app can be used only within the range of area as per the Geo rules implemented by NIOS

Features of Mobile App

Two layered Authentication

The mobile app is powered by two layers of authentication.
a) User credentials
b) Scan QR code

Security & Privacy

Geo-fencing

The mobile app works within the specified range of the Geo-coordinates of the Study Centre

Accessibility

Auto Sync with Web Portal & Device Responsive

The data is two way synched between the portal and the mobile app

Operability & Responsiveness

https://www.figma.com/proto/PF52bgs0fUEFX7T1hfEtRM/NIOS_AVI_Mobile_App_V1?page-id=0%3A1&node-id=12%3A2&viewport=288%2C48%2C0.65&scaling=scale-down&starting-point-node-id=2%3A2

Mobile app can be used by:

a) **Study Centre** for uploading the Geo coordinates and uploading the photos
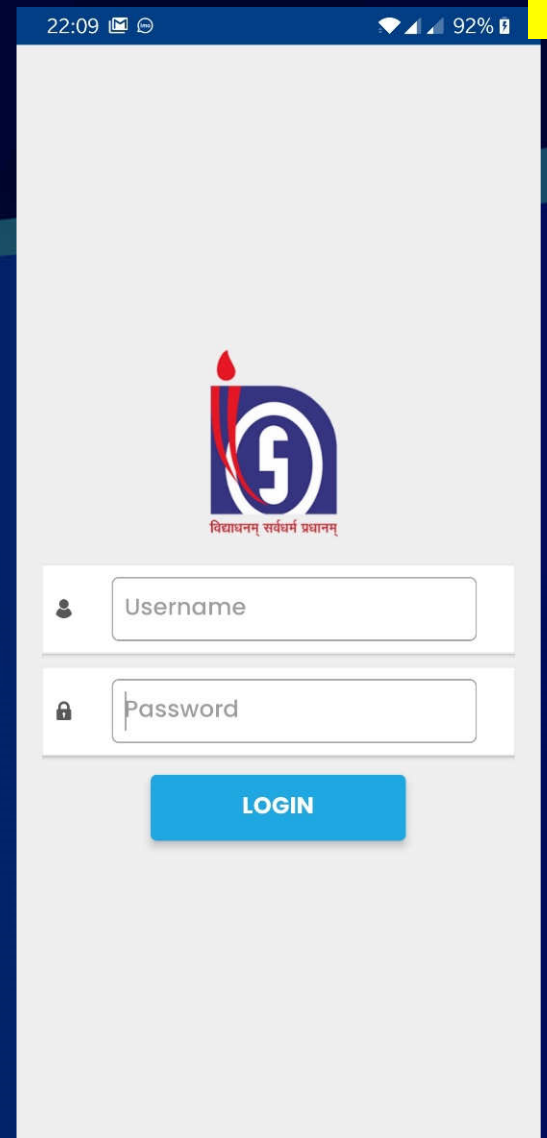
b) **Academic facilitator/officials** nominated by NIOS for PCP monitoring while visiting study centre

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Process:

AI/Academic facilitator will visit the study centre and login into the mobile app by providing the credentials (username and password) assigned by NIOS

This is first level of authentication

Process:

After the successful login with the credentials, the AI/Academic facilitator will have to scan the QR code available in the login of the study centre

The scanning of QR code will work only in the Geo-fencing area

Welcome,

Please scan QR code to login

SCAN QR

Process:

Mobile app will ask for the Geo coordinates (if the Geo-coordinates are not available in database for the visited study centre)

22:09

Dashboard

UPDATE LOCATION

ADD PCP PHOTOS
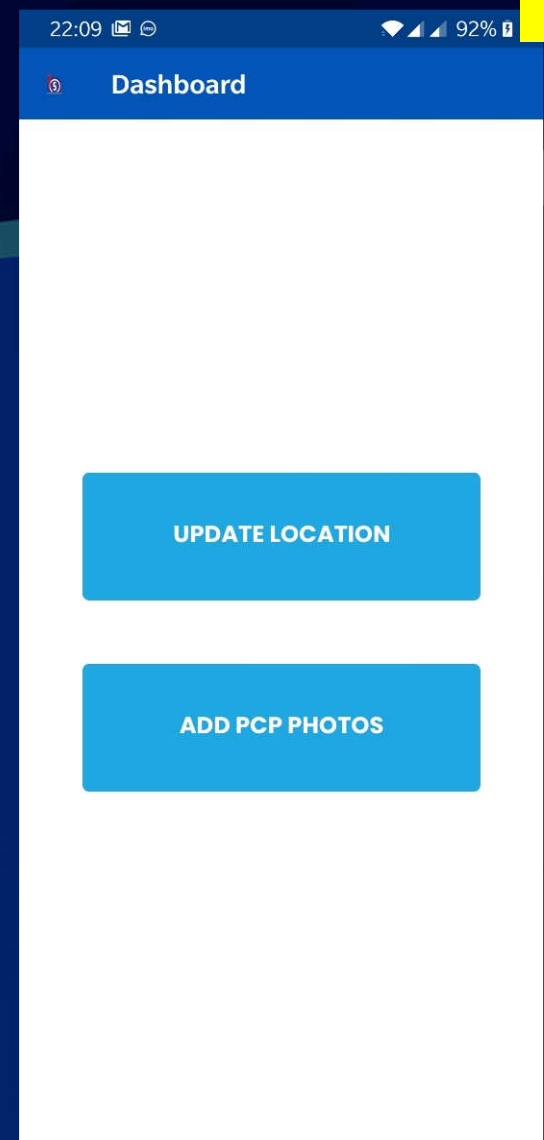
Process:

Mobile app will work within the range of Geo coordinates only.

This concept is called Geo fencing
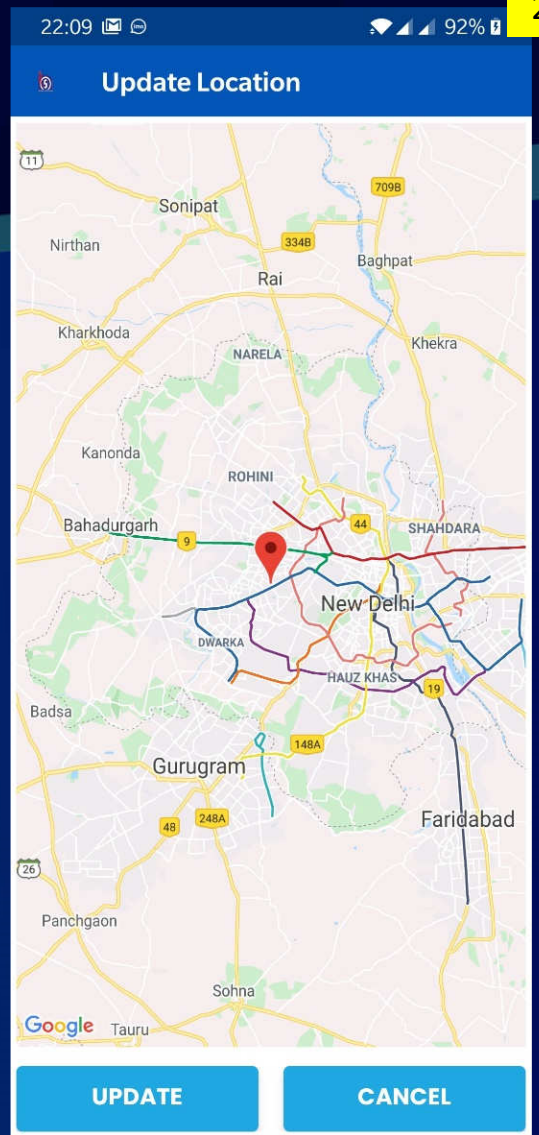
Process:

Mobile app will facilitate the user to move the pointer to a particular location and can update the current location as Geo coordinates.
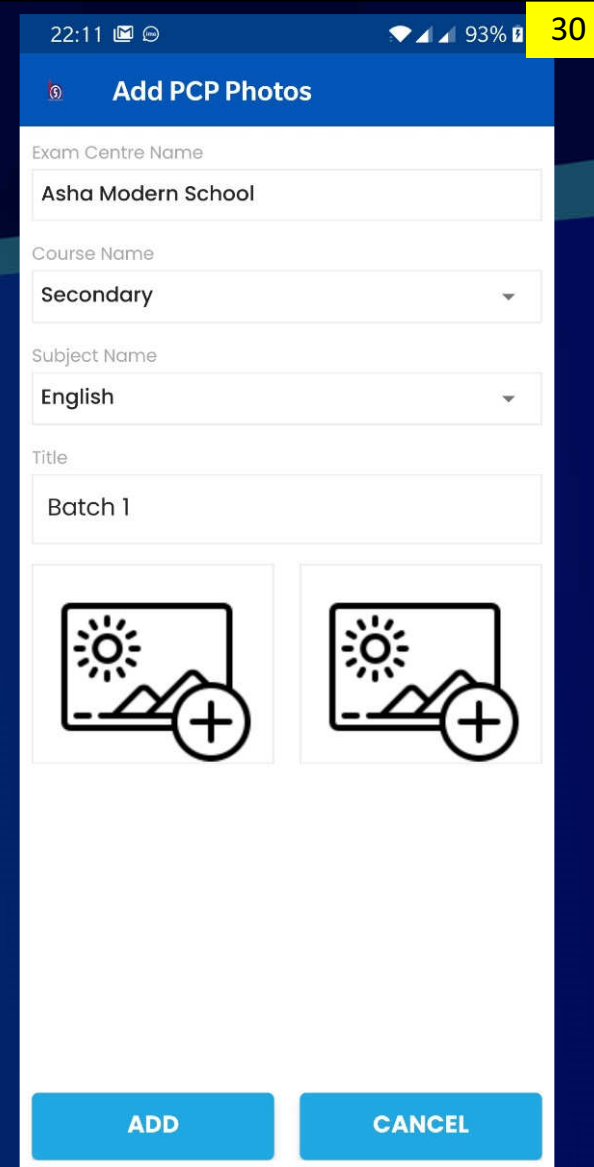
These Geo-coordinates will be the base for calculating the Geo fencing area
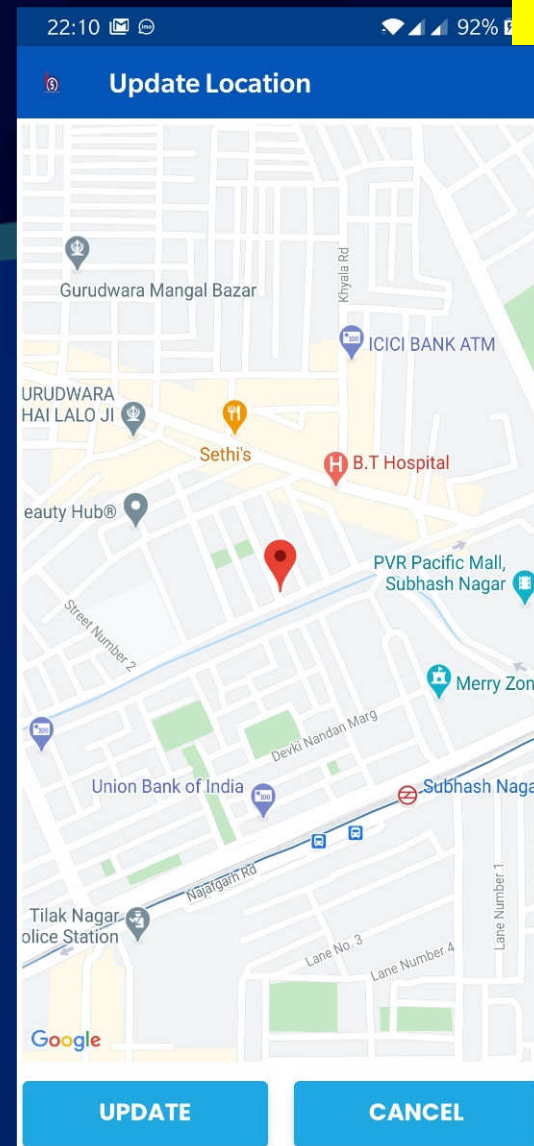
Process:

AI/Academic facilitator has to select the course (Sec. or Sr. Sec.), then select the subject and select batch from the list of batches available in through mobile app.

Same app can be extended for monitoring Vocational PCP

The list of batches will be displayed based on the PCP schedule uploaded by the study centre for the current session

The schedule will be listed for current date and time only

If schedule is not uploaded for current day & time, an error will be displayed

Upload photos from Study Centre

- Click and upload at least two photographs of the on-going PCP

- Uploaded photographs will be available in the panel of Study centre, Regional Centre and HQ for monitoring

- Date, time & Geo coordinates will be saved from the photographs clicked using the mobile app

PCP Monitoring – Web Portal

PCP Monitoring – Web Portal

- PCP Photographs can be searched based on available filters like study centre, date of PCP, subject etc.

- Study centre, RC and HQ will be able to see photographs of PCP uploaded by Academic Facilitator

Thank You!

Improvement

Has no boundaries