

User's Manual

for

UNIFY PORTAL

Developed by



National Crime Records Bureau

New Delhi



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1 INTRODUCTION

Vision

NCRB keeps on exploring technologies to reduce manual and redundant efforts being done in policing. As part of such exploration, NCRB has come with an idea to have an Automated Facial Recognition System (AFRS), based on Image based search/comparison techniques.

NCRB has developed, an AI based, Image searching application (namely Unify), which compares the photos of probed/searched with CCTNS national database (missing person/found-person/dead-bodies/accused) and returns the probable matches for manual comparison.

Features:

Unify App has the following features

- Automated facial recognition system, developed using AI/ML technologies.
- AI / Machine Learning based model to compare facial features
- Identifies Person of Interest (PoI) (Dead-bodies/Suspects/Unknown Found/Missing Persons) against photos available in CCTNS Database.
- Eases back tracking of PoI, incase PoI was in contact with police.
- Accessible to Police over Internet through 'digitalpolice.gov.in'
- Secure Application, vetted by CERT-In empanelled agency
- Returns Best 3 Matches from the national CCTNS Database



2 UNIFY WEB APPLICATION

Using UNIFY Web Application, user can upload photos of **Person of Interest (suspect/found person/dead-body)** and can search them in CCTNS National database; in turn, system would return the most probable images of persons along with case/complaint information. In case results match with the probed PoI, then Police officers may compare the images and other particulars from CCTNS search application using case/complaint number returned by UNIFY and act accordingly. The entire operation can be done in real time. Thus would reduce the efforts needed, in case the person has come in contact with police.

Following modules are present in the application:

- Create Account
- Login
- Dashboard
- Search Identify Recovered Person/Dead Body
- Success Stories

3 GETTING STARTED

- Open any internet browser (i.e. Internet Explorer, Firefox, etc.)
- Enter URL <http://digitalpolice.gov.in/> in browser address bar
- Click on UNIFY-WEBAPP to IDENTIFY
- You will be redirected to UNIFY Home page
- Or Enter URL <https://164.100.44.122/api/home> directly in browser address bar

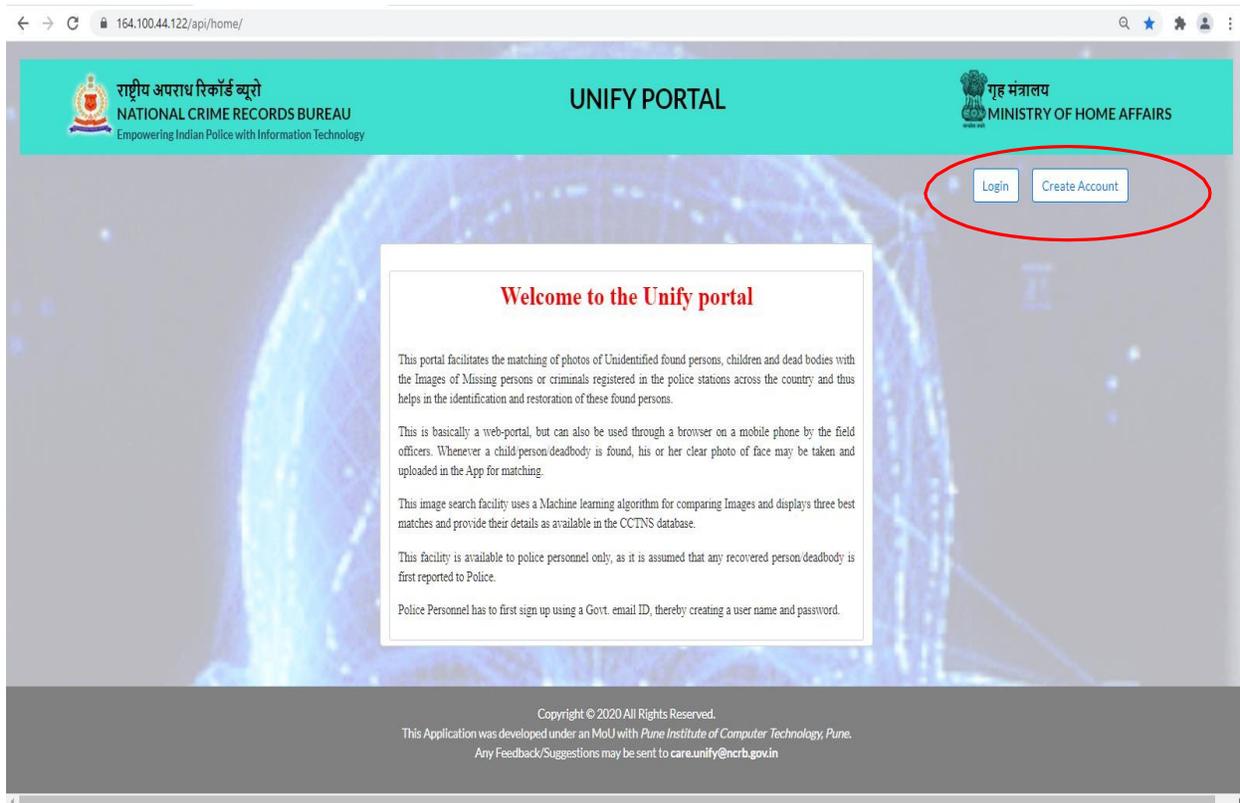
The screenshot shows a web browser window with the address bar containing digitalpolice.gov.in. The page title is "Ministry of Home Affairs | Digital Police - digitalpolice.gov.in". The website header includes the Government of India logo and the text "DIGITAL POLICE". Below the header, there is a navigation menu with links for Home, About, Services, Feedback, and Contact. The main content area features a banner for "Digital India A SMART Policing Initiative" with a description of the portal's purpose. Below the banner, there are two columns of services:

- SERVICES FOR CITIZEN**
 - REPORT A CYBER CRIME
 - Proclaimed Offenders Information.
 - Locate Nearest PS.
 - SERVICES PROVIDED BY STATE POLICE CITIZEN PORTALS
 - Filing of Complaints to the concerned Police Station.
 - Obtaining the status of the complaints.
 - Obtaining the copies of FIRs.
 - Details of arrested persons/wanted criminals.
 - Details of missing/kidnapped persons and their matching with arrested.
 - Details of stolen/recovered vehicles, arms and other properties.
 - Submission of requests for issue/renewal of various NOCs.
 - Verification requests for servants, employment, passport, senior citizen registrations etc.
 - Portal for sharing information and enabling citizens to download required forms.
- SERVICES FOR POLICE**
 - CCTNS SEARCH
 - CCTNS REPORTS
 - I-MOT-MONITORING OF TERRORISM CASES
 - CYTRAIN-CYBER INVESTIGATION TRAINING
 - NDSO-SEXUAL OFFENDER DATABASE
 - ITSSO-SEXUAL OFFENCES INVESTIGATION TRACKER
 - CRI-MAC-WEBAPP TO FLASH CRIME ALERTS
 - UNIFY-WEBAPP TO IDENTIFY** (circled in red)

At the bottom of the page, there are logos for india.gov.in, data.gov.in, @GOV.IN, National Knowledge Network, myGov, and GOI web directory. The footer contains "QUICK LINKS" and "REACH US" sections.

4 HOME/LANDING PAGE

- Unify Home Page facilitates users to Login and Create new account.



← → ↻ 164.100.44.122/api/home/ 🔍 ⚙️ 👤 ⋮

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Login Create Account

Welcome to the Unify portal

This portal facilitates the matching of photos of Unidentified found persons, children and dead bodies with the Images of Missing persons or criminals registered in the police stations across the country and thus helps in the identification and restoration of these found persons.

This is basically a web-portal, but can also be used through a browser on a mobile phone by the field officers. Whenever a child/person deadbody is found, his or her clear photo of face may be taken and uploaded in the App for matching.

This image search facility uses a Machine learning algorithm for comparing Images and displays three best matches and provide their details as available in the CCTNS database.

This facility is available to police personnel only, as it is assumed that any recovered person deadbody is first reported to Police.

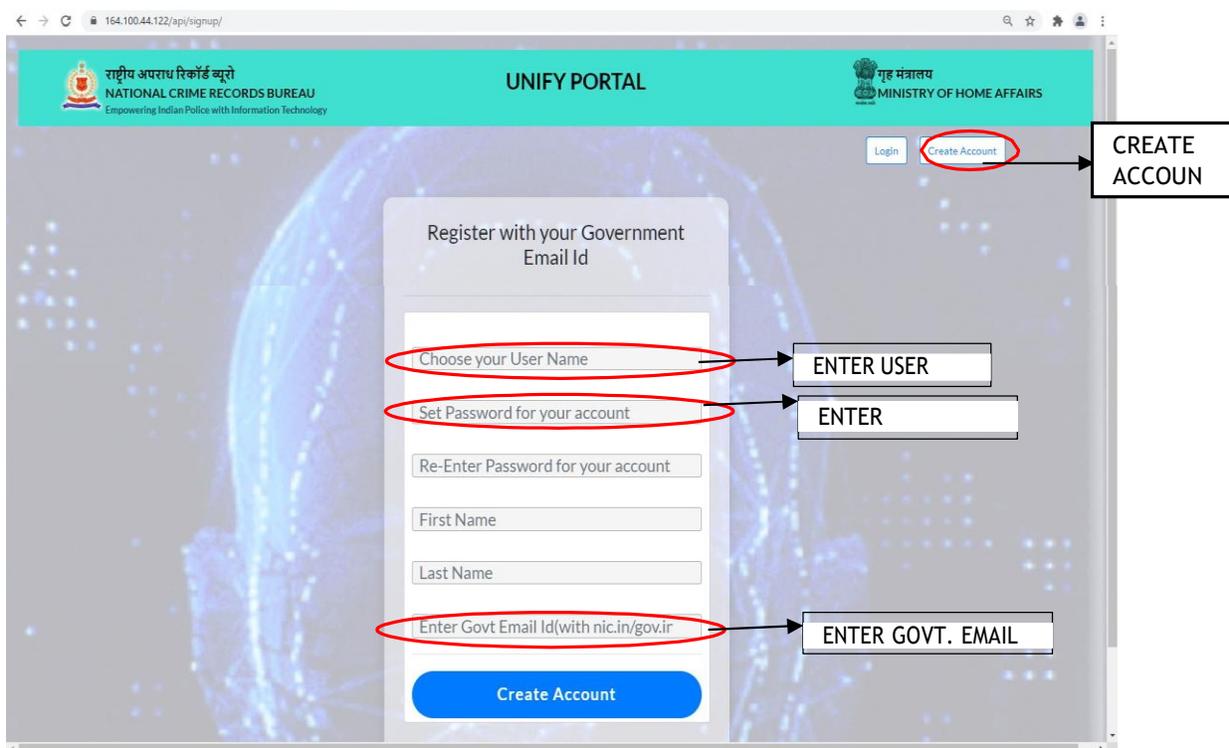
Police Personnel has to first sign up using a Govt. email ID, thereby creating a user name and password.

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This Application was developed under an MoU with Pune Institute of Computer Technology, Pune.
Any Feedback/Suggestions may be sent to care.unify@ncrb.gov.in

5 CREATE ACCOUNT

New users may create an account themselves using option “Create Account”

- Choose User Name, Password, Re-Password and enter First Name, Last Name and E-Mail(Only Govt. email IDs with domain name gov.in or nic.in can be used)
- Click on Create Account.
- An email containing activation link of account will be sent to your email
- Click on the Activation link shared through email, to activate your account
- Click on “Yes” button, if prompted by browser.



The screenshot shows the UNIFY PORTAL registration interface. The header includes the National Crime Records Bureau logo and the Ministry of Home Affairs logo. The main heading is "UNIFY PORTAL". There are two buttons: "Login" and "Create Account". The "Create Account" button is circled in red, with an arrow pointing to a box labeled "CREATE ACCOUNT". Below the header is a registration form titled "Register with your Government Email Id". The form has several input fields: "Choose your User Name" (circled in red, with an arrow pointing to a box labeled "ENTER USER"), "Set Password for your account" (circled in red, with an arrow pointing to a box labeled "ENTER"), "Re-Enter Password for your account", "First Name", "Last Name", and "Enter Govt Email Id(with nic.in/gov.in)" (circled in red, with an arrow pointing to a box labeled "ENTER GOVT. EMAIL"). At the bottom of the form is a blue button labeled "Create Account".



E-mail Activation Link

Mail | Contacts | Calendar | Tasks | Briefcase | Preferences | Login History | Video Tutorials

New Message | Reply | Reply to All | Forward | Archive | Delete | Spam | Actions | Read More | View

Mail Folders: Inbox (52), Sent, Drafts (2), Junk, Trash

Sorted by Date | 100+ | **Activate Your UNIFY Account - Reg** | 1 message

From: care unify | May 27, 2021 1:54 PM

Hi user_manual,

Please click on the link below to confirm your registration:

<http://164.100.44.122/api/activate/MjM2NA/5qz-459e55282dc068f32354/>

ACCOUNT ACTIVATION LINK

Mail | Contacts | Calendar | Tasks | Briefcase | Preferences | Log

New Message | Spam

Mail Folders: Inbox (52)

June 2021 | 30 | 31 | 1 | 2 | 3 | 4 | 5

Informational

URL <http://164.100.44.122/api/activate/MjM2NA/5qz-459e55282dc068f32354/> blocked due to security, Please read the URL and ensure it's authenticity and then click "Yes" to proceed

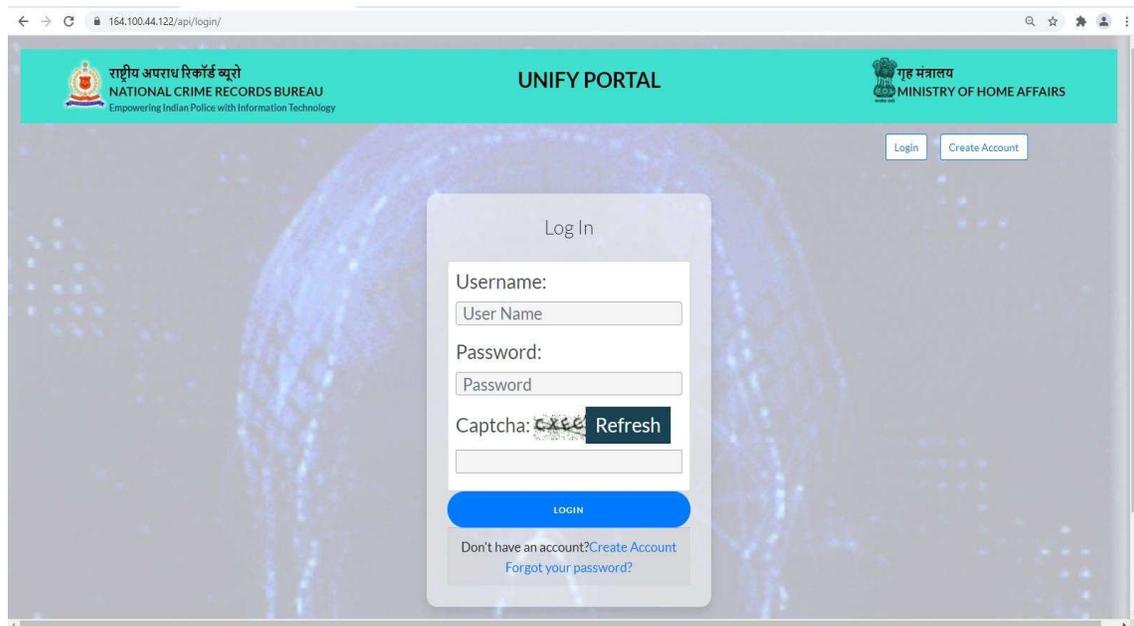
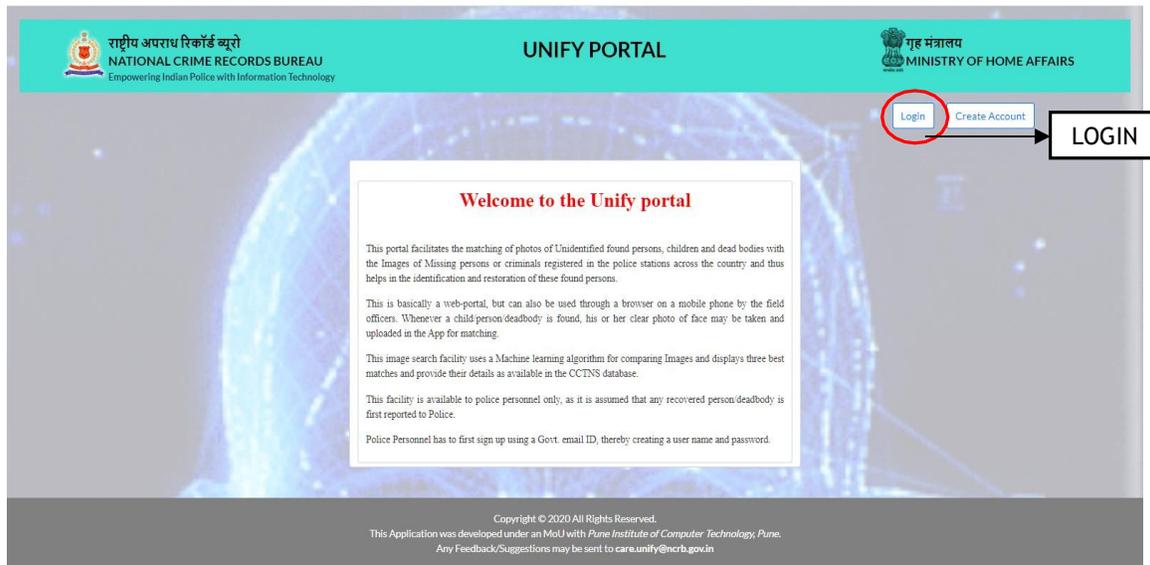
Yes | No

Please click on the link below to confirm your registration:

<http://164.100.44.122/api/activate/MjM2NA/5qz-459e55282dc068f32354/>

6 LOGIN

- Click on Login button.
- Enter Username, Password and Captcha(given in image)
- Click on Login button.



7 IDENTIFY RECOVERED PERSON/DEAD BODY/MISSING PERSON

This page used to identify POI by uploading PoI's photo

- Identify Recovered Person/Dead Body/Missing Person page displays option to upload photo to identify POI.
- Click **“Choose file”** button
- Select the photo of the person to identify
- **Click on person type** to filter the search results by person type (By default is **“ALL”**) i.e. Missing Person, Unidentified person, Unidentified Dead body, Others etc.
- To further narrow down the search **Click on Calendar control to choose a date** after which the search is to be executed
- Click on **“IDENTIFY”** button
- Matching results will be displayed. User may select corresponding feedback radio button, in case of a correct match.
- Click on **“Submit”** button to save your feedback

164.100.44.122/api/upload/Person/

Gmail YouTube Maps PARICHAY OFFICIAL... NCRB Home Page Android Date Time...

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Welcome ! ncrbuser

Identify Missing Person / Recovered Person
or Unidentified Dead body

Person of Interest:
ALL

Search after: 01-01-2021

Photo: Choose file | No file chosen → **CHOOSE FILE**

Identify

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35°C Haze 11:19 31-03-2022



164.100.44.122/api/uploadPerson/

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Welcome | ncrbuser

Open

Desktop > missing_data > demo > attachments

Organize New folder

This PC 3D Objects Desktop Documents Downloads Music Pictures Videos

172730. Accused_1 Dead_body_2 Missing_child un_identified_per son

File name: Accused_1 Image Files

Open

Click Open

Photo: Choose file No file chosen

Identify

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35°C Haze 11:28 31-03-2022

164.100.44.122/api/uploadPerson/

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Welcome | ncrbuser

Identify Missing Person / Recovered Person or Unidentified Dead body

Person of Interest:

ALL

ALL

Missing person

Un-identified Person

Un-identified Dead-body

Others

Identify

Choose Person Type from Dropdown

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35°C Haze 11:21 31-03-2022



164.100.44.122/api/uploadPerson/

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Welcome ! ncrbuser

Identify Missing Person / Recovered Person or Unidentified Dead body

Person of Interest:
ALL

Search after: 01-01-2021

Photo: January, 2021

Mo	Tu	We	Th	Fr	Sa	Su
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

Click on calendar and choose date for filter according to date

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164.100.44.122/api/uploadPerson/

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Welcome ! ncrbuser

Identify Missing Person / Recovered Person or Unidentified Dead body

Person of Interest:
ALL

Search after: 01-01-2021

Photo: Choose file No file chosen

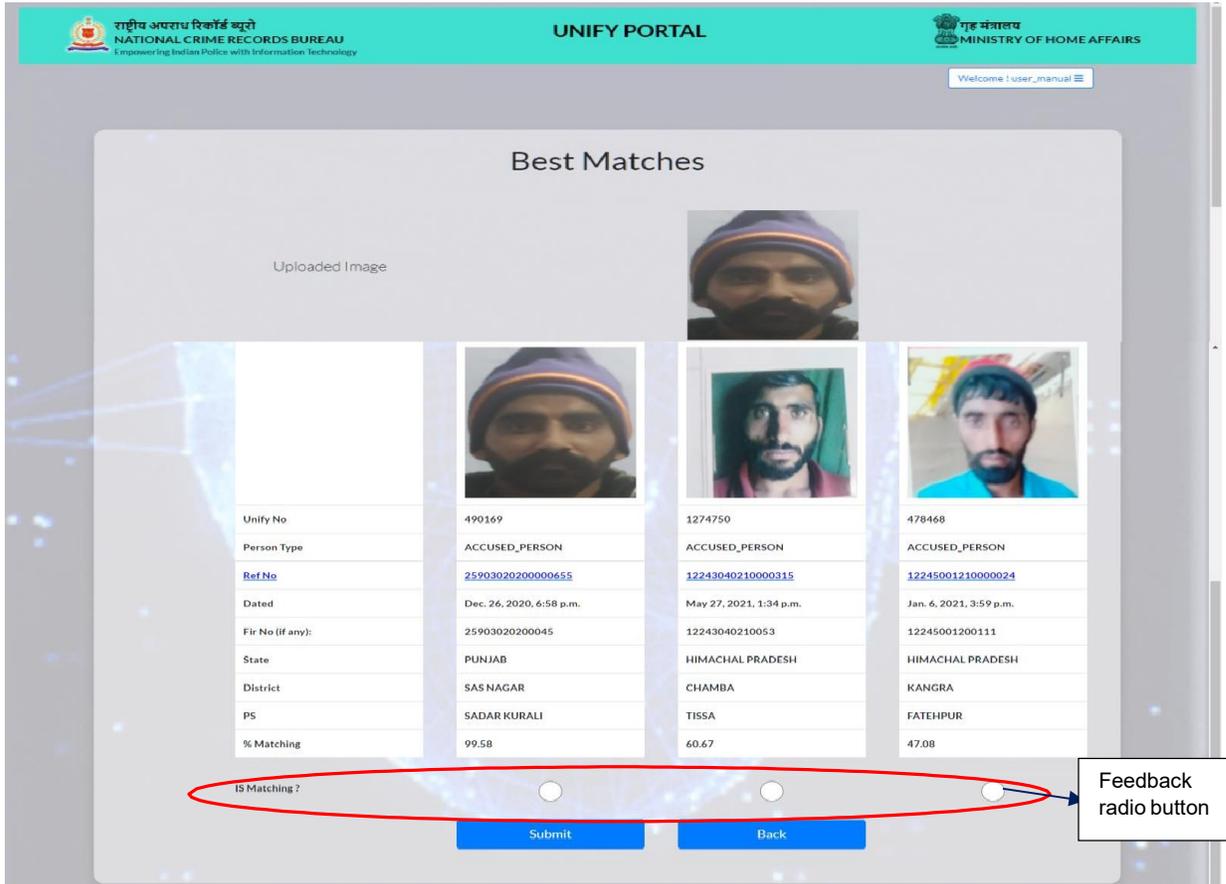
Identify

CLICK IDENTIFY

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Screenshot of Accused Person Search result



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Welcome | user_manual

Best Matches

Uploaded Image

	490169	1274750	478468
Unify No	490169	1274750	478468
Person Type	ACCUSED_PERSON	ACCUSED_PERSON	ACCUSED_PERSON
Ref No	2590302020000655	12243040210000315	12245001210000024
Dated	Dec. 26, 2020, 6:58 p.m.	May 27, 2021, 1:34 p.m.	Jan. 6, 2021, 3:59 p.m.
Fir No (if any):	25903020200045	12243040210053	12245001200111
State	PUNJAB	HIMACHAL PRADESH	HIMACHAL PRADESH
District	SAS NAGAR	CHAMBA	KANGRA
PS	SADAR KURALI	TISSA	FATEHPUR
% Matching	99.58	60.67	47.08

IS Matching?

Submit Back

Feedback radio button

Screenshot of Missing Person Search

Uploaded Image

	Match 1	Match 2	Match 3
Unify No	175124	235970	1311120
Person Type	MISSING_PERSON	MISSING_PERSON	MISSING_PERSON
Ref No	12250037200033	27566002200009	21346034210017
Dated	Nov 9, 2020, 1:37 p.m.	June 14, 2020, 8:48 a.m.	June 4, 2021, 3:52 p.m.
Fir No (if any):	None	None	None
State	HIMACHAL PRADESH	RAJASTHAN	MADHYA PRADESH
District	MANDI	PALI	SAGAR
PS	SUNDER NAGAR	TRANSPORT NAGAR	KHURAI
% Matching	47.78	45.38	44.45

Screenshot of Dead Person Search

Best Matches

Uploaded Image

	Match 1	Match 2	Match 3
Unify No	177632	1324348	164093
Person Type	ACCUSED_PERSON	MISSING_PERSON	MISSING_PERSON
Ref No	12245028180000403	21330060210082	8171005160126
Dated	Aug 3, 2018, 4:02 p.m.	June 11, 2021, 5:02 p.m.	Dec 30, 2016, 6:34 p.m.
Fir No (if any):	122450281800084	None	None
State	HIMACHAL PRADESH	MADHYA PRADESH	DELHI
District	KANGRA	INDORE	SOUTH WEST
PS	JAWALAMUKHI	AZAD NAGAR	BABA HARIDAS NAGAR
% Matching	61.16	52.02	51.32

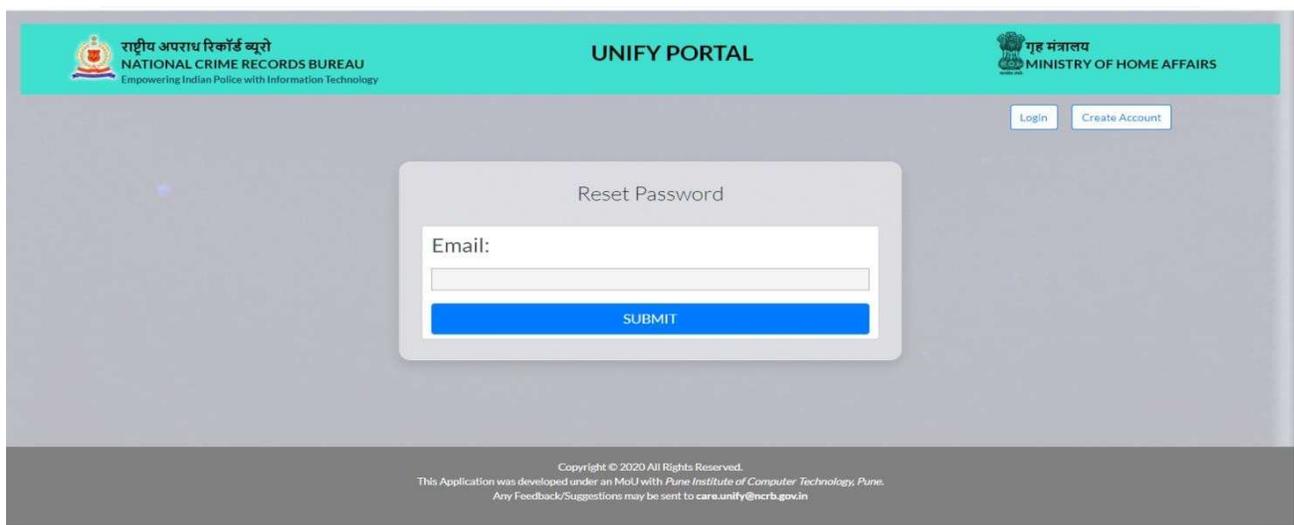
8 SUCCESS STORIES

This page displays, feedback submitted by user.

Successful Matches					
Searched Image	Date	Ref No	User	Score	Matched Image
	April 6, 2021, 8:12 a.m.	799763	crofaridabad	45.73	
	June 20, 2021, 1:38 a.m.	180187	PSIHONNAVAR	44.08	
	June 19, 2021, 7:08 a.m.	188140	nmcrime	58.29	
	June 16, 2021, 6:04 a.m.	192032	so-mansoorpur.mu@up.gov.in	51.33	
	March 15, 2021, 4:02 p.m.	482787	ps_bilsi	40.53	
	March 15, 2021, 12:52 p.m.	480988	pi-lcb-morbi@gujarat.gov.in	52.84	

9 FORGOT/RESET PASSWORD

- Go to Login Page (URL- <https://164.100.44.122/api/login/>)
- Click on Forgot password link
- Enter registered email address associated your account
- On clicking the submit button User will receive a link to reset password in his registered email-id. Click on the link received via email
- Enter New password and its confirmation
- Finally click on “SUBMIT” button to save password
- On success you will be redirected to reset password completion page



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Login Create Account

Reset Password

Email:

SUBMIT

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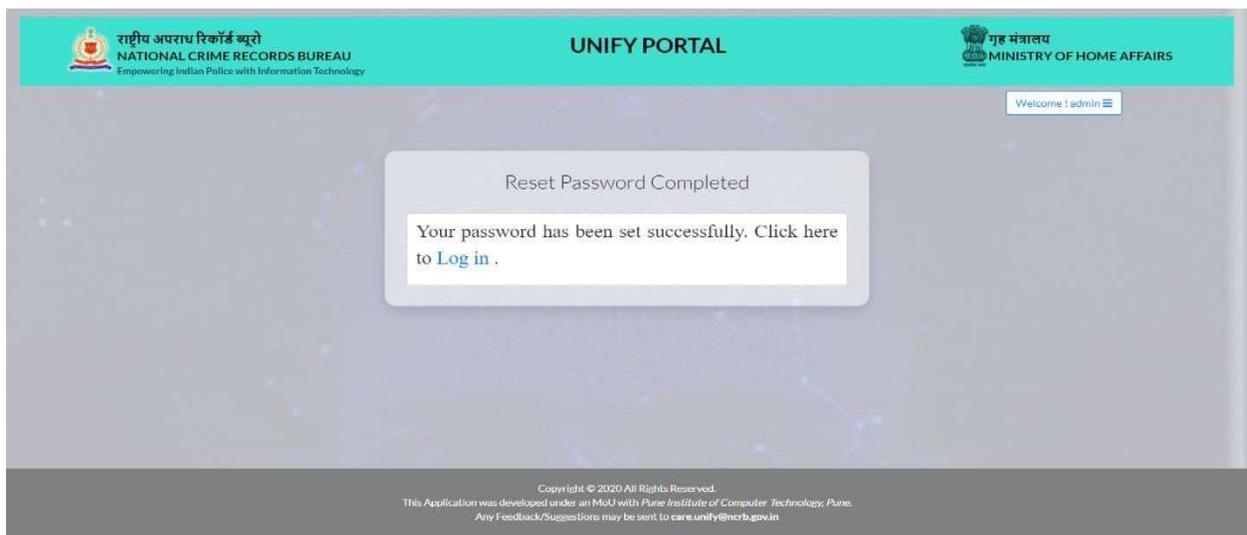
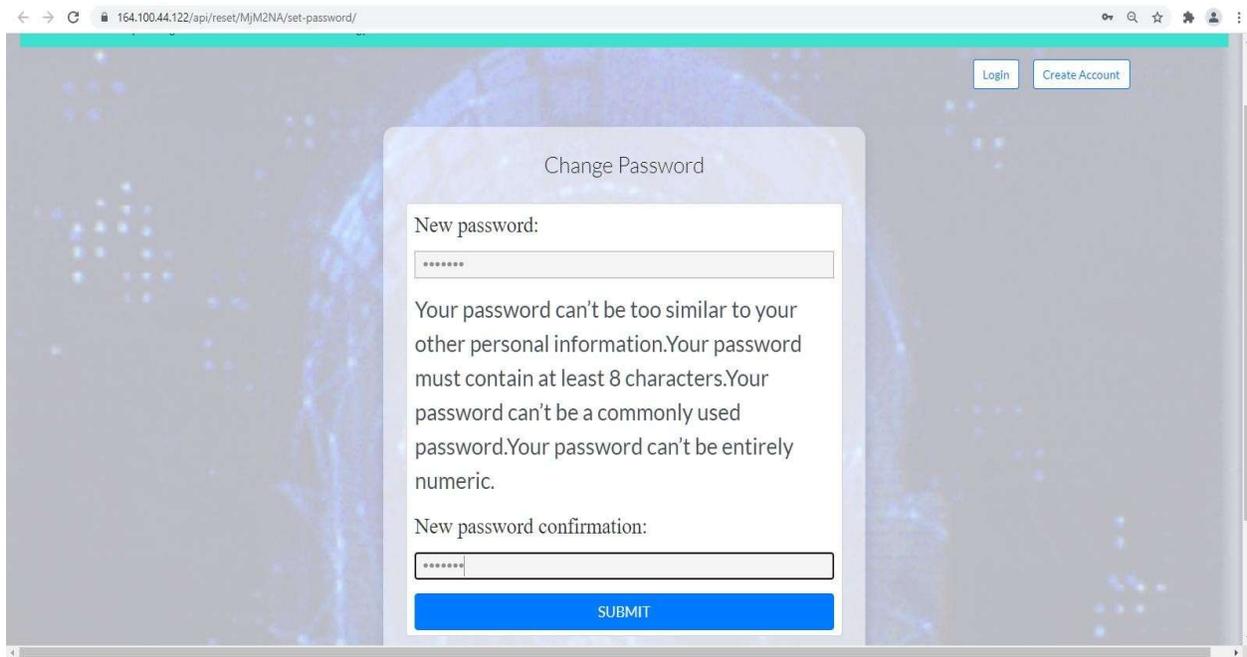
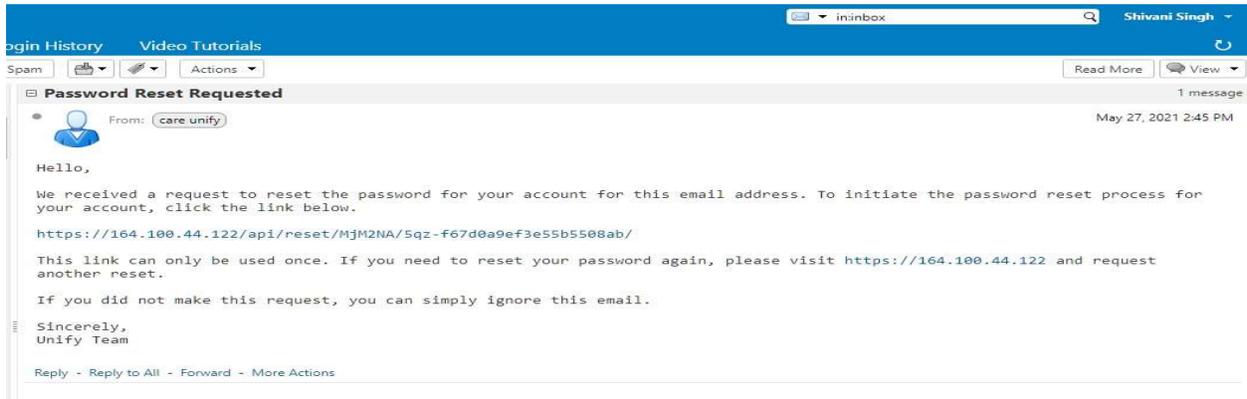
Welcome | user_manual

Reset Password Emailed

We've emailed instructions to reset password of your Unify account, if an account exists with the email you entered. You may receive email shortly.

If you do not receive an email, please make sure you've entered correct email address registered with Unify portal, and also check your spam folder.

Home|Login



10 CHANGE PASSWORD

- Login to the portal
- Click on Menu(Welcome user)
- Choose Change Password
- Enter Old/Current password
- Enter New password
- Re-enter new password
- Select **“SAVE CHANGES”** button to successfully change password.

