Fraudulent First-time Student Application

Foothill-De Anza Community College District

High-level view of automation flow diagram

CCCApply

Banner Database

Query First Time & Fetch Student Applicants (CWID)

Module 1

Validate CCCApply data using IPQS tool

Fraud score >= 84 ?

Yes

Hold/Release Dashboard

Place A&R Hold on Fraudulent student record & send BCM message

BCM

FAFSA Banner

Database

Query ALL FAFSA Applicants (CWID)

Module 2

Validate Banner FAFSA data using IPQS (no ip addr)

Fraud score == 50 or 100?

Yes

Hold/Release Dashboard

Place PH Hold on student record. Send BCM message for Fraud score "100"

Banner

Database

Query & Fetch Students Applicants (CWID)

Module 3

Examine Registration Pattern

Fraud score == TBD ?

Yes

Restrict student's access to Canvas

Query & Fetch Students Applicants (CWID)

Module 4

Validate Canvas data with IPQS tool

Fraud score == TBD ?

Yes

Basic Modules

Module 1

Validate CCCApply data using IPQS tool to determine Fraud score

Module 3

Examine Student Registration Pattern

Module 2

Validate Banner FAFSA data to determine Fraud score
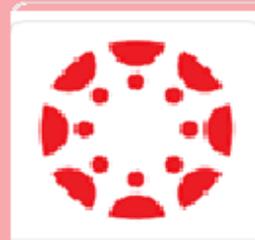
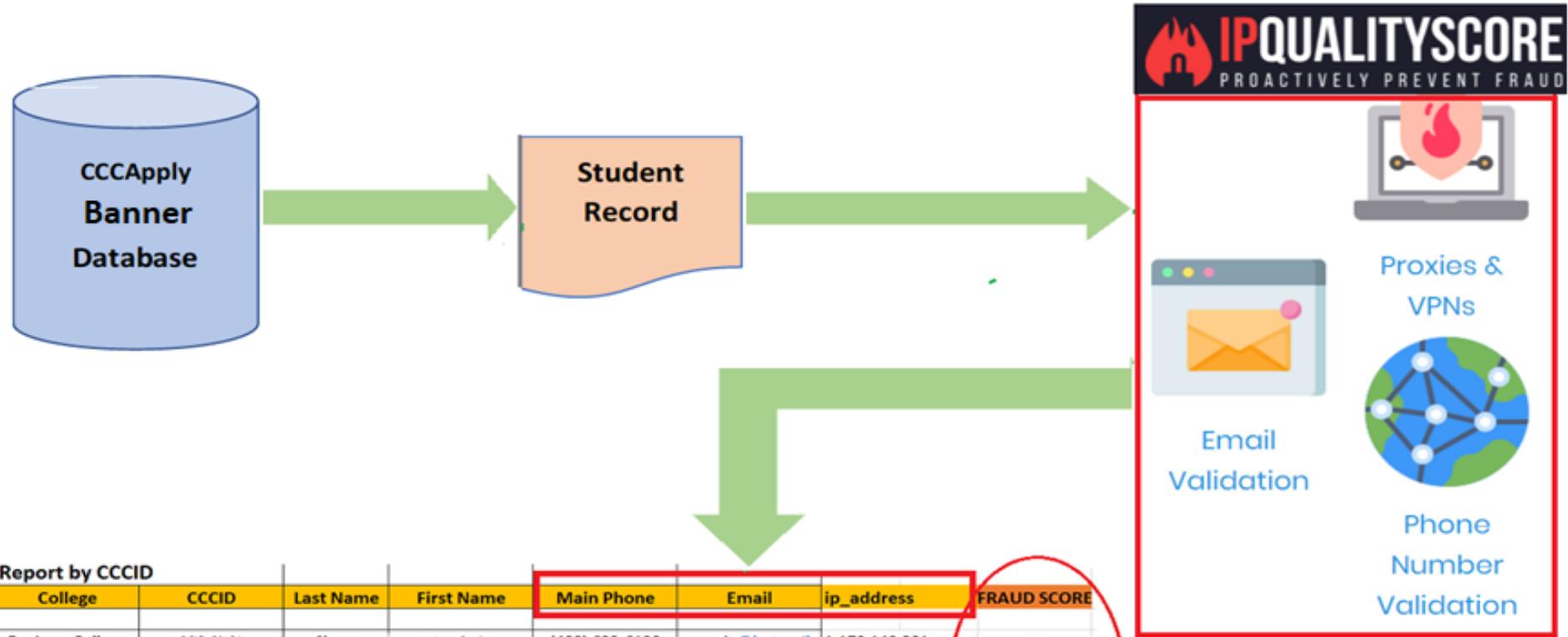**Module 4**

Student Canvas activity frequency

Steps to establish a Fraud score

- **Module 1**: Establish fraud scores using the ipqs tool for **IP addr, email, phone, first name, last name, street address, city, state, zip code**

  for CCCApply new student applicant and SWACAP student records.

- **Module 2**: Establish fraud scores on the selected data, for **Missing Phone number, Driver's Lic, Household income, number of yrs in college. Also look at DOB, CWID, fee payment history, ..** from Banner FAFSA

- **Module 3**: Examine student registration pattern and perform data analysis and establish fraud score

- **Module 4**: Canvas login IP Addr, Monitor Canvas participation until Census date, other Canvas data

Module 1: CCCApply applicants

- CCCApply students are processed every 15 minutes
- For students with a fraud score of 84 and above, automation is designed to do the following:

  1. Place an A&R Hold on the student
  2. Trigger a Banner Communication Message(BCM) to the student
  3. "Student Hold/Release" Dashboard

Module 1: Fraud Score using IPQS

Module 1 : Hold/Release Dashboard capabilities

Select the number of records to be displayed per page

String based search

Selective search diaglog box: CWID or Term or Student Name or fraud score

Fraud Prevention Dashboard

First time student applicants with CWID 2049xxxx and higher, with an IPQS score between 84 and 100 have been placed on hold. Clicking the button "Click to Release Hold" will release the Hold on the student and the student is eligible to register classes.

Show [10 ▼] entries

Search: [_____]

10
25
50
100
All

Date	CWID	Student Name	CCCApply Score	FAFSA Score	Email	Term	A&R Hold Status	Fin.Aid Hold Status
Jul 1	20	Jessic	88		jessica199180717@gmail.com	202221	Click to release Hold	
Jul 10	204	Ch g	88		themastermind7768@gmail.com	202221	Click to release Hold	
Jul 08	7	Re Naomi Ling	84		reannenling@gmail.com	202222	Click to release Hold	
Jul 08	2 1	K Marie	84		katie_anstedt@yahoo.com	202221	Click to release Hold	
Jul 07	204		88		drfndrfr@gmail.com	202222	Click to release Hold	
Jul 07	20	th Diaz	84		allhustlenoluvv@gmail.com	202222	Click to release Hold	
Jul 07	204	Alexander Anthony Cru	93		alexcrumes@gmail.com	202221	Click to release Hold	
Jul 07	2	Claire Wedekin Clarke	84		claireawed@gmail.com	202222	Click to release Hold	
Jul 07	20		90		jillpi@learningct.org	202212	Click to release Hold	
Jul 07	20	Douglas	90		naturalog.space@gmail.com	202222	Click to release Hold	

Click the button to release the hold

Showing 1 to 10 of 135 entries

First < 1 2 3 4 5 ... 14 > Last

Total number of entries

Column specific searches

Use page selection to navigate

Module 1: Dashboard

1. The Dashboard list's Fraudulent first-time student CCCApply applicants (Student Type 1 & 2)

2. CWID series 2049xxxx and later with a Fraudulent CCCApply IPQS of 84 and above are placed on Hold.

3. High School students, International students, student athletes, non-first-year students and DSPS, DRC are not part of the dashboard.

Module 2: FAFSA application processing

- Process records for fraud detection based on the specified data selection criteria, validating Gross INC, Driver's Lic#, years in college, followed by IPQS validating Phone, email

- All FAFSA applicants are processed once every 24 hours

- For students with a fraud score of 100 , automation is designed to:
    1. Place a PH Hold on the student
    2. Trigger a Banner Communication Message(BCM) to the student
    3. "Student Hold/Release" Dashboard

- For students with a fraud score of 50 , automation is designed to:
    1. Place a PH Hold on the student
    2. "Student Hold/Release" Dashboard

Module 2: Banner-FAFSA data selection

	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
	RCRAPP4_EMAIL_ADDRESS	RCRAPP1_BIRTH_DATE	RCRAPP1_ADDR	RCRAPP1_CITY	RCRAPP1_STAT_CODE	RCRAPP1_ZIP	RCRAPP1_PHONE_AREA	RCRAPP1_PHONE_NO	RCRAPP1_STAT_CODE_LIC	RCRAPP1_DRIVER_LIC_NO	RCRAPP3_YR_IN_COLL_2	RCRAPP4_HS_GED_RCVD	RCRAPP1_PAR_FAM_MEM B	RCRAPP1_FAM_M EMB	RCRAPP4_TX_RET_FILED_IND	RCRAPP1_US_INC	RCRAPP1_US_INC_TAX_PD	RCRAPP1_INC_FR_WRK	TREQ_CO DES	RORSTAT_TGRP_C ODE	FUND_C ODES	RHRCOM M_COM MENT	RORSTAT_PGRP_CODE
	seant825@gm	8/25/	1264 MEDLEY	SAN JOSE	CA	95121	408	6035321	CA	F5727553	5	1		1	3			0	ADMT; DAPS;	NOTVER	BOGC		
	sakura01_syad	4/19/	510 SOUTH 22	SAN JOSE	CA	95116	408	6749862	CA	F4700126	5	1		1	3			0	ADMT; FAFAM	NOTVER	BOGC		
	andreapixcioh	9/15/	1384 S ALMAI	SAN JOSE	CA	95110	408	4668077			3	1		1	1	0	0	0	ADMT; FAFSA;	NOTVER	BOGC		
	w0840734@a	1/16/	7365 POWER	SACRAMENTO	CA	95828	279	2221650	CA	B7737717	3	2		1	1	0	0	0	ADMT; FAFSA;	NOTVER	BOGC		
	danicallalic@g	4/30/	7029 LYNDALE	ELK GROVE	CA	95758	916	5825962	CA	F4483940	3	1		1	3			0	ADMT; FAFSA;	NOTVER	FBOGB		
	nataliecrue@g	6/26/	705 BRITTANY	STOCKTON	CA	95206	209	6395399	CA	D3161678	3	1		1	3			0	ADMT; FAFSA;	NOTVER	BOGC		
	cournoyer94@	1/18/	928 SOUTH BF	LOS ANGELES	CA	90015			CA	Y9197389	2	1		1	3			0	ADMT; FAFSA;	NOTVER	BOGC		
	johnstout982(	5/8/	ADDRESS1	BELLEVUE	OH	44811						1		1	3			0	ADMT; DFLT; E V4_E		BOGC	7/7/21: Student selected for V4 verification b
	antwan4096@	12/10/	1530 ADELAID	CONCORD	CA	94520					0	1		3	3			9000	ADMT; FAFSA; V1_IE		BOGC	
	anastasiaehor	8/11/	841 LEIGH AVE	SAN JOSE	CA	95128					0	1		1	3			0	ADMT; EDEM;	NOTVER	BOGC	EDEM - DOB mismatch. KB
	mistypool788(	2/24/	161 W SANTA	SAN JOSE	CA	95110					0	1		1	3			0	ADMT; FAFSA;	NOEFC		
	matthewbarn(	6/15/	742 PALMERA	ALAMEDA	CA	94501					0	1		1	3			8000	ADMT; FAFSA; V4_E		BOGC	7/7/21: Student selected for V4 verification b
	weshoj1@out	5/30/	24301 ELISE C	LOS ALTOS	CA	94024					0	2		1	3			0	ADMT; FAFSA;	NOTVER		
	mcgregorjane(	7/9/	201 SANDCHE	SAN RAMON	CA	94582					0	1		1	3			0	ADMT; FAFSA;	NOTVER		7/15/21: Selected student for V4 verification

Students selected for verification

Missing Phone

Missing Lic#

Born before 1998 and No College years

Reported NO income

Student selection criteria
For 21/22, remove students who were born January 1, 1998 or later
If student has more than 6 Overall Passed Hours (See SHATERM) > Remove them from the list.
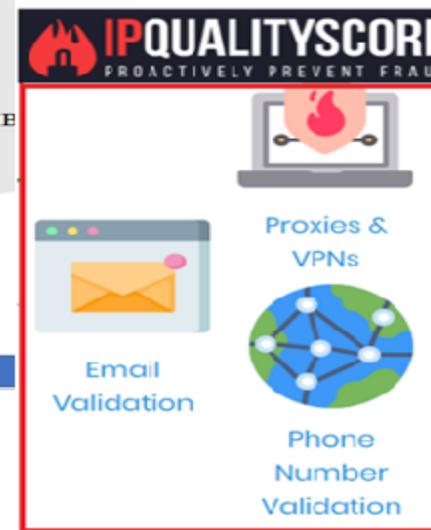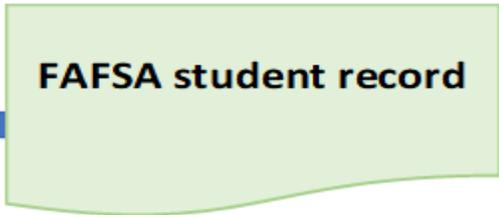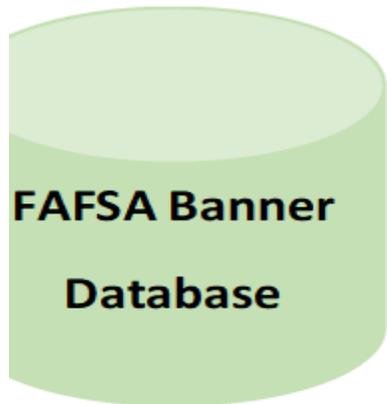If student has made a credit card or cash payment to either Foothill or De Anza (See TSAAREV) > Remove them from the list.
If student has other colleges listed on SOAPCOL besides Foothill or De Anza > Remove them from the list.

Module 2: Validate FAFSA data to determine fraud

FAFSA data validation

Email: RCRAPP4_EMAIL_ADDRESS
Date of Birth: RCRAPP1_BIRTH_DATE
Street Address: RCRAPP1_ADDR
City: RCRAPP1_CITY
State: RCRAPP1_STAT_CODE
Zip Code: RCRAPP1_ZIP
Area Code: RCRAPP1_PHONE_AREA
Phone Number: RCRAPP1_PHONE_NO
Driver's License State: RCRAPP1_STAT_CODE_LIC
Driver's License Number: RCRAPP1_DRIVER_LIC_NO
Year in College: RCRAPP3_YR_IN_COLL_2
High School Diploma or Equivalent: RCRAPP4_HS_GED_RCVD
Number of Family Members in Parent Household: RCRAPP1_PAR_FAM_MEMB
Number of Family Members in Student Household: RCRAPP1_FAM_MEMB
Tax Return Filed: RCRAPP4_TX_RET_FILED_IND
Adjusted Gross Income: RCRAPP1_US_INC
Income Taxes Paid: RCRAPP1_US_INC_TAX_PD
Wages: RCRAPP1_INC_FR_WRK

FAFSA Banner Database → **FAFSA student record** →

IPQUALITYSCORE
PROACTIVELY PREVENT FRAUD

Email Validation — Proxies & VPNs — Phone Number Validation

CWID	Term	Last Name	First Name	Submit Da	Main Phoi	Email	Street 1	Perm City	Perm Stat	Postalcod	Birth Date	FRAUD SCORE	E
234345464	Fall 2020	Y...	ZIMENG	########		super...ova	C03	SHANGHAI			########	96	
233443w3q	Fall 2020	Si...	Sh... An	########		oiar1726@	2F., No. 34	Taipei		105	1/1/2002	23	
444323564	Fall 2020	..e	Kri...	########		kristel9@u	No.17, Aly	H...t... City			########	45	
543545454	Fall 2020	P...ce	Debra	########	(941) 301-	me...t21	275	Tam...	FL	33334	6/1/1997	5	
...	.....			..									

Module 1 and Module 2 data fields

- **CCCApply Data Fields**

IP_SCORE, IP_ADDRESS, EMAIL_SCORE, Email, PHONE_SCORE, PHONE_NUMBER, ApplyDate, CWID,CCC_ID, TERM, ACTIVITY_USER, STUDENT_NAME, AGE, PRIOR_ENROLLMENT

- **FAFSA Data Fields**

AidYear, Student_ID,First_Name, Last_Name, RCRAPP1_SSN, RCRAPP4_EMAIL_ADDRESS, RCRAPP1_BIRTH_DATE, RCRAPP1_ADDR, RCRAPP1_CITY, RCRAPP1_STAT_CODE, RCRAPP1_ZIP, RCRAPP1_PHONE_AREA, RCRAPP1_PHONE_NO, RCRAPP1_STAT_CODE_LIC, RCRAPP1_DRIVER_LIC_NO, RCRAPP3_YR_IN_COLL_2,RCRAPP4_HS_GED_RCVD, RCRAPP1_PAR_FAM_MEMB,RCRAPP1_FAM_MEMB,RCRAPP4_TX_RET_FILED_IND,RCRAPP1_US_INC,RCRAPP1_US_INC_TAX_PD,RCRAPP1_INC_FR_WRK,TREQ_CODES,RORSTAT_TGRP_CODE,FUND_CODES,RHRCOMM_COMMENT,RORSTAT_PGRP_CODE

Module 3: Student Registration pattern requirements

1. Register into popular classes with multiple sections
2. Enroll into non-credit course
3. Registered in no pre-req classes
4. Major does not match registered courses
5. Register into late start classes
6. Registered in classes at the same time
7. Some of the CWID are very close
8. Sudden surge in enrollment numbers

Module 4: Canvas

1. Students Canvas Login IP address (IPQS tool)

2. Procure Login frequencies report (Minimal Canvas usage/logins)

   Monitor students enrolled in Single/ multiple course(s) with zero "Times Participated", by running Canvas reports until Census date.

3. Data points Name, Email, Phone etc

user id	user sis id	user name	content type	content	times viewed	times participated	last viewed
22043300	22049600	E	assignment	LAB D: Hardware Presentation	15	1	2021-06-08T21:32:1
11112223	22043300		context	Zoom	15		2021-06-17T15:29:2
22049602	22043300	Ma no	attachment	Week 2.pdf	15		2021-06-22T09:07:3
32986981	11112223	Der na	context	Zoom	15		2021-06-17T15:46:5
43924360	22049602		quizzes:quiz	Midterm 3 (open 2 days)	15	6	2021-06-03T14:10:5
54861739	32986981	Ange ina	assignment	Journal 10	15	1	2021-06-15T13:30:4
65799118	43924360	V	wiki	Chp 1 Part 2: Economic Systems	15		2021-06-21T03:05:3
76736497	54861739	Ja a	discussion	cussion: Two Articles - Reply by 8	15	3	2021-06-01T22:28:4
43924360	65799118		assignment	Journal #9	15	1	2021-06-02T21:54:2
54861739	76736497	Se n	attachment	hys50 Lecture 15 with answers.p	15		2021-06-15T09:14:5
65799118	87673876	Ac s	discussion	Sustainable Development	15	1	2021-06-19T22:13:3
75694	98611255	Y	discussion	cussion: Two Articles - Reply by 8	15	3	2021-06-08T12:01:0
43924360	109548634	Mic lla	quizzes:quiz	Test #2 -	15	5	2021-05-26T19:53:0
54861739	120486013	N	discussion	le motion and air resistance - Dis	15	1	2021-06-06T14:31:5
65799118	131423392		assignment	Homework 7	15	1	2021-06-07T08:30:4
43924360	142360771	N	assignment	Select Presentation Date/Time	15		2021-06-06T19:09:2
54861739	153298150	C	modules	Missing content	15	Missing participation	2021-05-24T22:05:4
65799118		Zhe ng	grades		15		2021-06-22T13:31:0