MISSION TO MARS

User Manual

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1 Executing the application

In the zip file we have submitted both the codes and also a jar file. We have compiled the code in intellij IDE.

First, unzip it and save in some local directory.

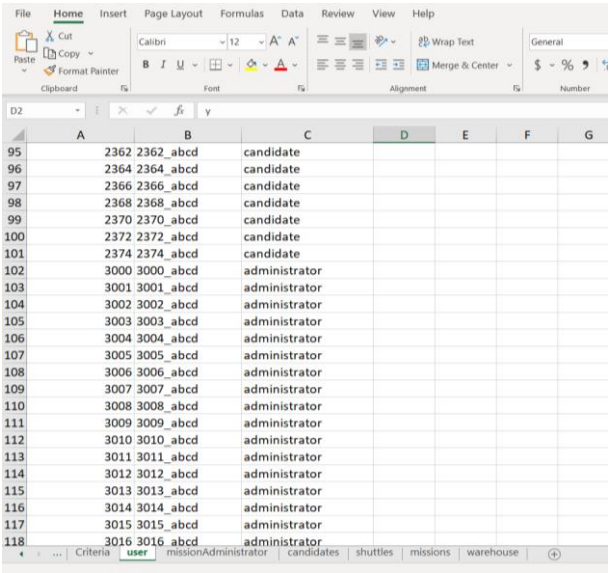
To run the jar file please provide the following command in the terminal from the jar folder location

java -jar FIT5136_S1_2020_10.jar

The java version 14 has been used for this assignment. Using version bellow 14 might cause error in running the program. Also, we need to put the excel file in the same folder as the jar file.

2 Login Process:

After running the application successfully, it will require the user to log in. The user can login as a coordinator, administrator or as an candidate. To login you will need to provide the user type specific ID and Password. We have provided the list of user Id and password in an execl sheet. You can choose any one of those.

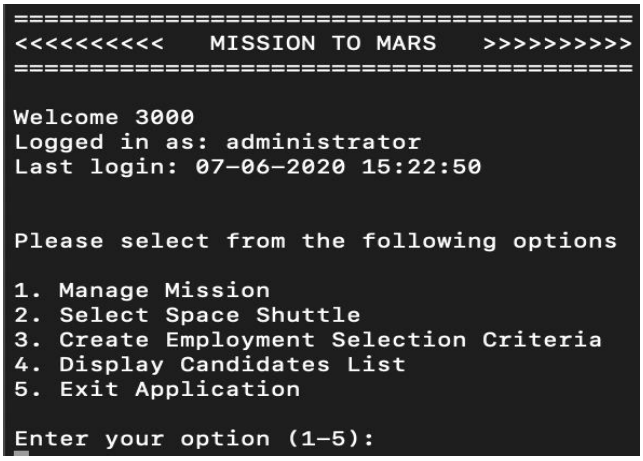


	A	B	C	D	E	F	G
95	2362	2362_abcd	candidate				
96	2364	2364_abcd	candidate				
97	2366	2366_abcd	candidate				
98	2368	2368_abcd	candidate				
99	2370	2370_abcd	candidate				
100	2372	2372_abcd	candidate				
101	2374	2374_abcd	candidate				
102	3000	3000_abcd	administrator				
103	3001	3001_abcd	administrator				
104	3002	3002_abcd	administrator				
105	3003	3003_abcd	administrator				
106	3004	3004_abcd	administrator				
107	3005	3005_abcd	administrator				
108	3006	3006_abcd	administrator				
109	3007	3007_abcd	administrator				
110	3008	3008_abcd	administrator				
111	3009	3009_abcd	administrator				
112	3010	3010_abcd	administrator				
113	3011	3011_abcd	administrator				
114	3012	3012_abcd	administrator				
115	3013	3013_abcd	administrator				
116	3014	3014_abcd	administrator				
117	3015	3015_abcd	administrator				
118	3016	3016_abcd	administrator				

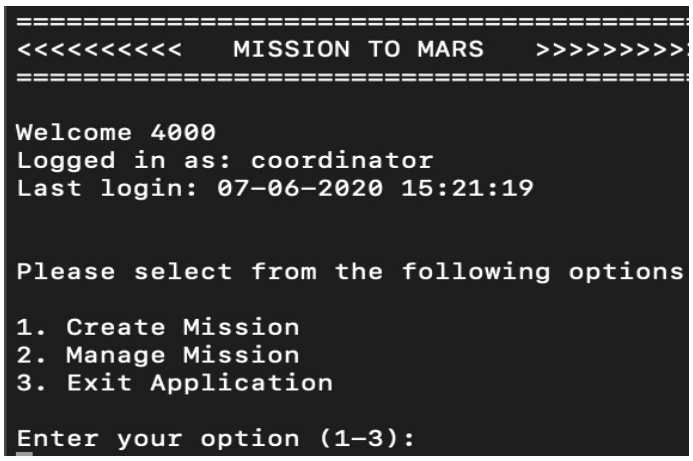
(Fig-2, user login ID and Password)

If the user can login successfully a time stamp will be there for that user.

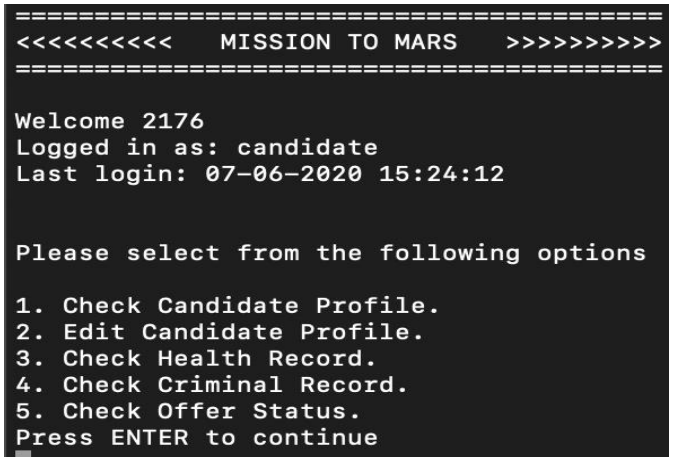
(User attempts to Login)



(Logged in as Coordinator)



(Logged in as Coordinator)



(Logged in as Candidate)

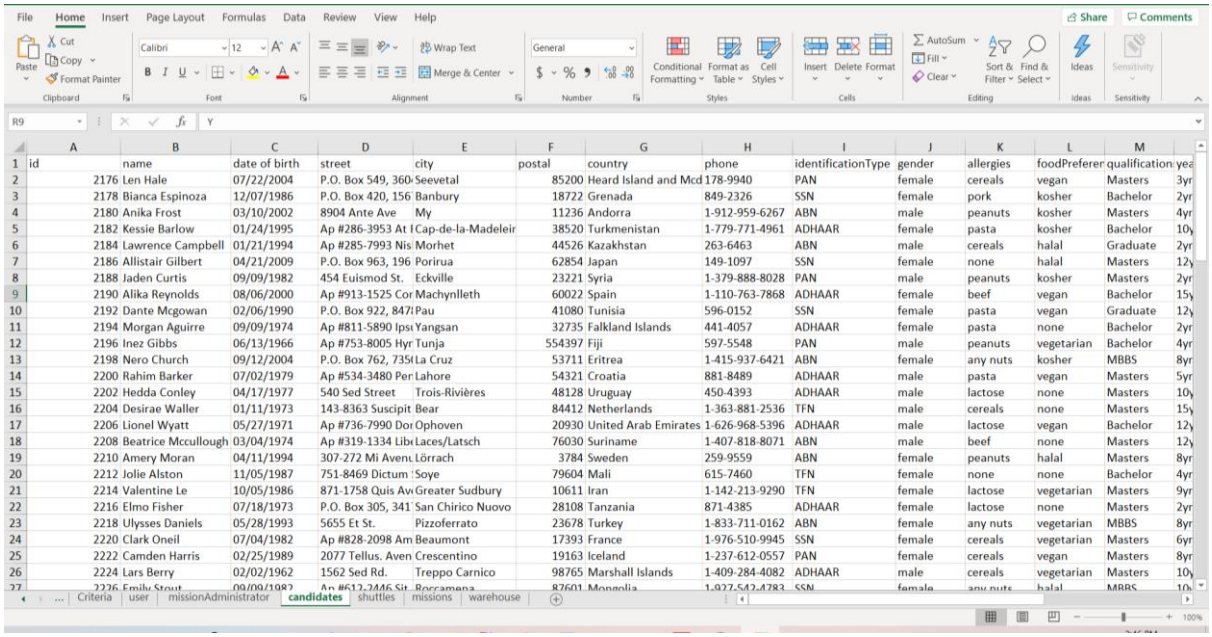
For the login process to fail, there are two condition. Either the user name or the password is in correct or the user does not exist.

(The user password is incorrect)

(The user does not exist)

2.1 Assumption in Login:

For the assignment we were assigned to complete feature five along with some other features. But feature five depends on feature four. To overcome the obstacle we have made the assumption that the list of candidates that we have are the candidates who have created accounts to mission to mars system and we have also used the provided list of candidate for that purpose.

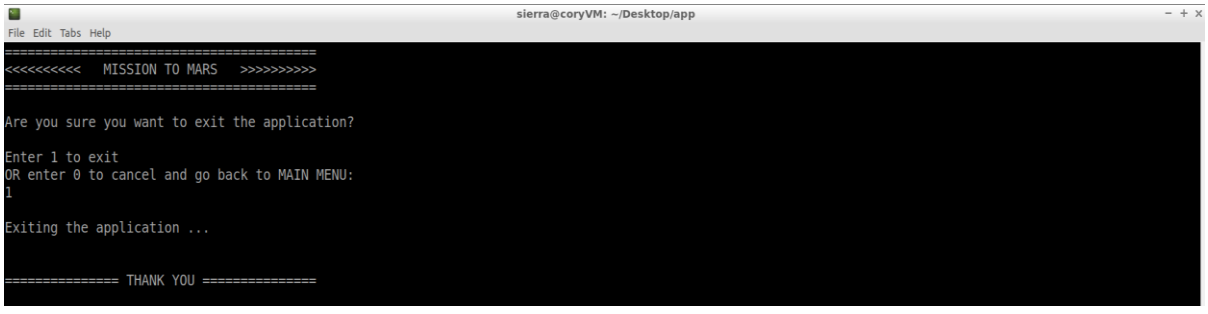


id	name	date of birth	street	city	postal	country	phone	identificationType	gender	allergies	foodPreferer	qualification	yea
2176	Len Hale	07/22/2004	P.O. Box 549, 360	Seevetal	85200	Heard Island and Mcd	178-9940	PAN	female	cereals	vegan	Masters	3yr
2178	Bianca Espinoza	12/07/1986	P.O. Box 420, 156	Banbury	18722	Grenada	849-2326	SSN	female	pork	kosher	Bachelor	2yr
2180	Anika Frost	03/10/2002	8904 Ante Ave	My	11236	Andorra	1-912-959-6267	ABN	male	peanuts	kosher	Masters	4yr
2182	Kessie Barlow	01/24/1995	Ap #286-3953 At I	Cap-de-la-Madeleir	38520	Turkmenistan	1-779-771-4961	ADHAAR	female	pasta	kosher	Bachelor	10y
2184	Lawrence Campbell	01/21/1994	Ap #285-7993 Nis	Morhet	44526	Kazakhstan	263-6463	ABN	male	cereals	halal	Graduate	2yr
2186	Allistair Gilbert	04/21/2009	P.O. Box 963, 196	Porirua	62854	Japan	149-1097	SSN	female	none	halal	Masters	12y
2188	Jaden Curtis	09/09/1982	454 Euismod St.	Eckville	23221	Syria	1-379-888-8028	PAN	male	peanuts	kosher	Masters	2yr
2190	Alika Reynolds	08/06/2000	Ap #913-1525 Cor	Machynlleth	60022	Spain	1-110-763-7868	ADHAAR	female	beef	vegan	Bachelor	15y
2192	Dante Mcgowan	02/06/1990	P.O. Box 922, 847	Pau	41080	Tunisia	596-0152	SSN	female	pasta	vegan	Graduate	12y
2194	Morgan Aguirre	09/09/1974	Ap #811-5890 Ips	Yangsan	32735	Falkland Islands	441-4057	ADHAAR	female	pasta	none	Bachelor	2yr
2196	Inez Gibbs	06/13/1966	Ap #753-8005 Hyr	Tunja	554397	Fiji	597-5548	PAN	male	peanuts	vegetarian	Bachelor	4yr
2198	Nero Church	09/12/2004	P.O. Box 762, 735	La Cruz	53711	Eritrea	1-415-937-6421	ABN	female	any nuts	kosher	MBBS	8yr
2200	Rahim Barker	07/02/1979	Ap #534-3480 Per	Lahore	54321	Croatia	881-8489	ADHAAR	male	pasta	vegan	Masters	5yr
2202	Hedda Conley	04/17/1977	540 Sed Street	Trois-Rivières	48128	Uruguay	450-4393	ADHAAR	male	lactose	none	Masters	10y
2204	Desirae Waller	01/11/1973	143-8363 Suscipit	Bear	84412	Netherlands	1-363-881-2536	TFN	male	cereals	none	Masters	15y
2206	Lionel Wyatt	05/27/1971	Ap #736-7990 Dor	Ophoven	20930	United Arab Emirates	1-626-968-5396	ADHAAR	male	lactose	vegan	Bachelor	12y
2208	Beatrice Mccullough	03/04/1974	Ap #319-1334 Libe	Laces/Latsch	76030	Suriname	1-407-818-8071	ABN	male	beef	none	Masters	12y
2210	Amery Moran	04/11/1994	307-272 Mi Avenu	Lörrach	3784	Sweden	259-9559	ABN	female	peanuts	halal	Masters	8yr
2212	Jolie Alston	11/05/1987	751-8469 Dictum	Soye	79604	Mali	615-7460	TFN	female	none	none	Bachelor	4yr
2214	Valentine Le	10/05/1986	871-1758 Quis Av	Greater Sudbury	10611	Iran	1-142-213-9290	TFN	female	lactose	vegetarian	Masters	9yr
2216	Elmo Fisher	07/18/1973	P.O. Box 305, 341	San Chirico Nuovo	28108	Tanzania	871-4385	ADHAAR	female	lactose	none	Masters	2yr
2218	Ulysses Daniels	05/28/1993	5655 Et St.	Pizzoferrato	23678	Turkey	1-833-711-0162	ABN	female	any nuts	vegetarian	MBBS	8yr
2220	Clark Oneil	07/04/1982	Ap #828-2098 Am	Beaumont	17393	France	1-976-510-9945	SSN	female	cereals	vegetarian	Masters	6yr
2222	Camden Harris	02/25/1989	2077 Tellus. Aven	Crescentino	19163	Iceland	1-237-612-0557	PAN	female	cereals	vegan	Masters	8yr
2224	Lars Berry	02/02/1962	1562 Sed Rd.	Treppo Carnico	98765	Marshall Islands	1-409-284-4082	ADHAAR	male	cereals	vegetarian	Masters	10y

(Candidates list with ID and Name)

3 Logout:

The user is given the option to logout or exit in all possible relevant places. The successful logout would require typing a specific number and then the user is log out.



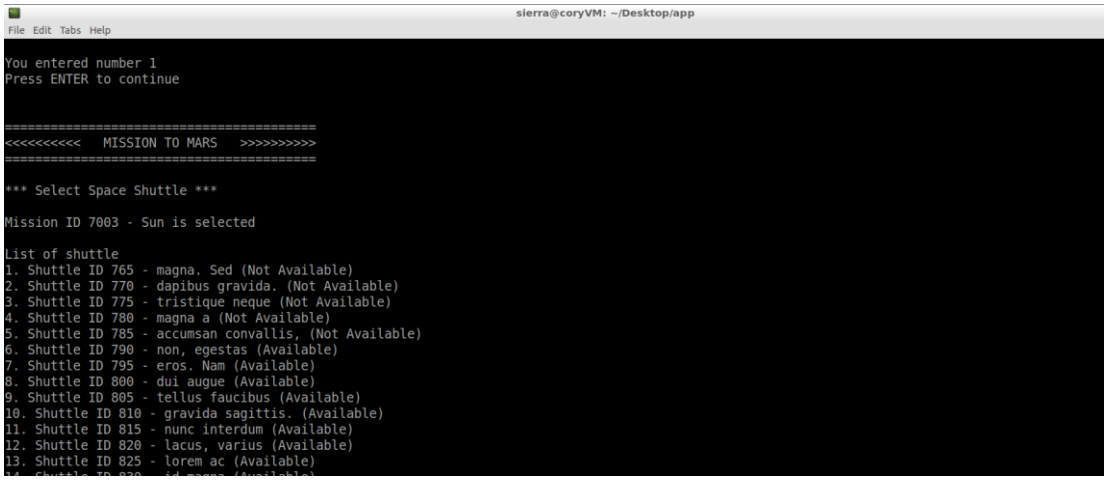
4 Creating a Mission (Feature one):

When the coordinator login the terminal will show the option for mission creation or to edit the mission information which we are calling “Manage Mission”. If the coordinator type “1” it will

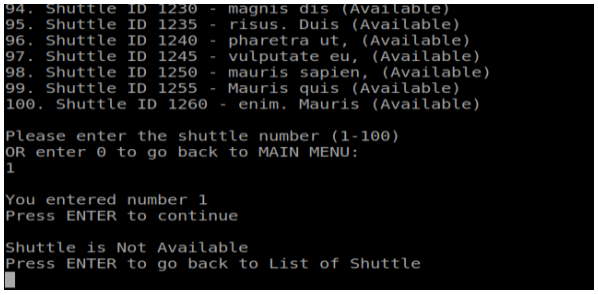
take him/her to the new mission creation page. Here s/he will put all the information necessary for creating a mission.

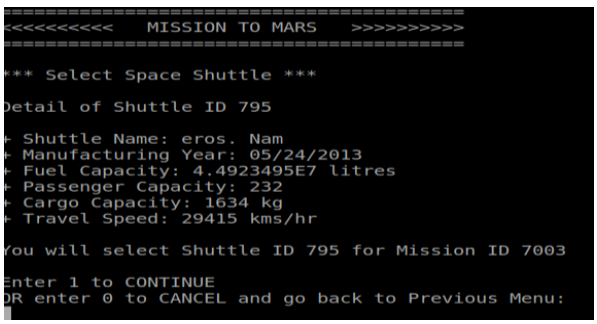
5 Selecting a space shuttle (Feature 2):

For this part of the application the user needs to login as an administrator. When administrator successfully logins to the system and types the input for the “select space shuttle” feature, it will display the list of created missions.



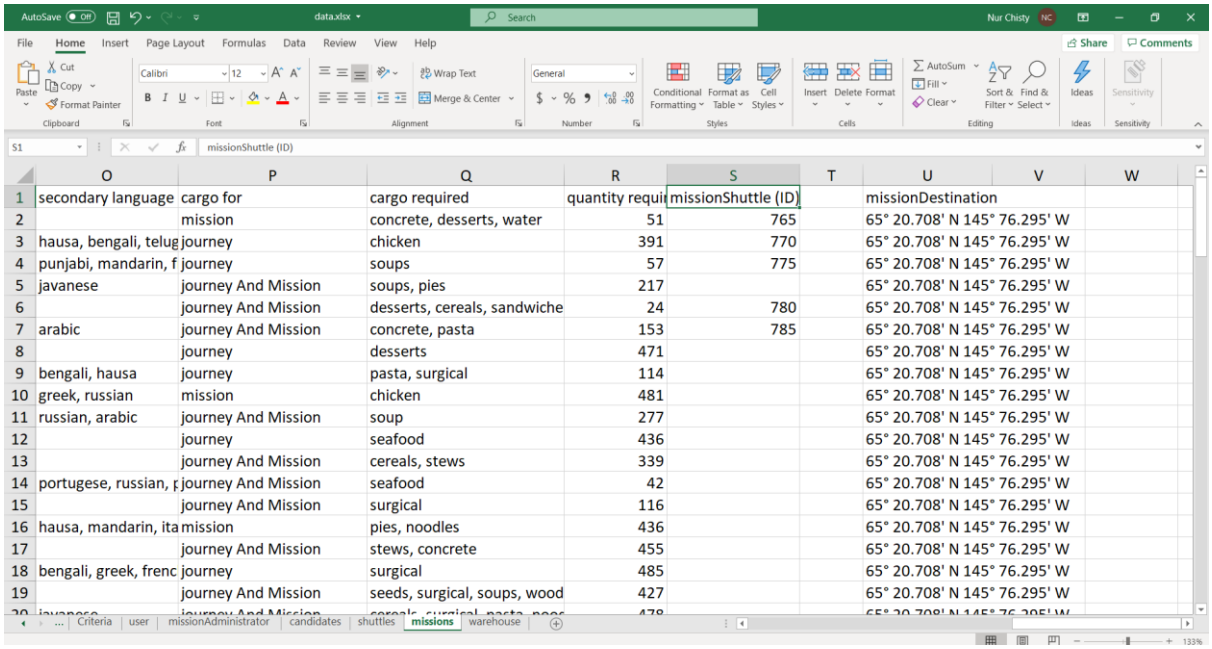
The administrator will require to type the number of a specific mission to add space shuttle. When the user types the correct mission ID, the administrator will be shown the list of all the shuttle with its status whether it is available or not.





When the administrator wants to see the details of a space shuttle, s/he has to type the correct number and it will display all the information of the shuttle. It will also allow the administrator to either select this shuttle or to go back to the shuttle list by typing specific number. If the

administrator selects the shuttle by typing the specific number, this value will be updated in the excel file in the column shuttle status.



	O	P	Q	R	S	T	U	V	W
1	secondary language	cargo for	cargo required	quantity requi	missionShuttle (ID)		missionDestination		
2		mission	concrete, desserts, water	51	765		65° 20.708' N 145° 76.295' W		
3	hausa, bengali, telug	journey	chicken	391	770		65° 20.708' N 145° 76.295' W		
4	punjabi, mandarin, f	journey	soups	57	775		65° 20.708' N 145° 76.295' W		
5	javanese	journey And Mission	soups, pies	217			65° 20.708' N 145° 76.295' W		
6		journey And Mission	desserts, cereals, sandwiche	24	780		65° 20.708' N 145° 76.295' W		
7	arabic	journey And Mission	concrete, pasta	153	785		65° 20.708' N 145° 76.295' W		
8		journey	desserts	471			65° 20.708' N 145° 76.295' W		
9	bengali, hausa	journey	pasta, surgical	114			65° 20.708' N 145° 76.295' W		
10	greek, russian	mission	chicken	481			65° 20.708' N 145° 76.295' W		
11	russian, arabic	journey And Mission	soup	277			65° 20.708' N 145° 76.295' W		
12		journey	seafood	436			65° 20.708' N 145° 76.295' W		
13		journey And Mission	cereals, stews	339			65° 20.708' N 145° 76.295' W		
14	portugese, russian,	journey And Mission	seafood	42			65° 20.708' N 145° 76.295' W		
15		journey And Mission	surgical	116			65° 20.708' N 145° 76.295' W		
16	hausa, mandarin, ita	mission	pies, noodles	436			65° 20.708' N 145° 76.295' W		
17		journey And Mission	stews, concrete	455			65° 20.708' N 145° 76.295' W		
18	bengali, greek, frenc	journey	surgical	485			65° 20.708' N 145° 76.295' W		
19		journey And Mission	seeds, surgical, soups, wood	427			65° 20.708' N 145° 76.295' W		

(Shuttle status updated)

5.1 Assumption in Selecting a space shuttle:

For the space shuttle information, we have used the provided data.

6 Creating Selection Criteria:

For selecting selection criteria, the user login as the administrator and then inputs “3” and will take him to the selection criteria page. It will contain the mission name for which selection criteria is to be set.

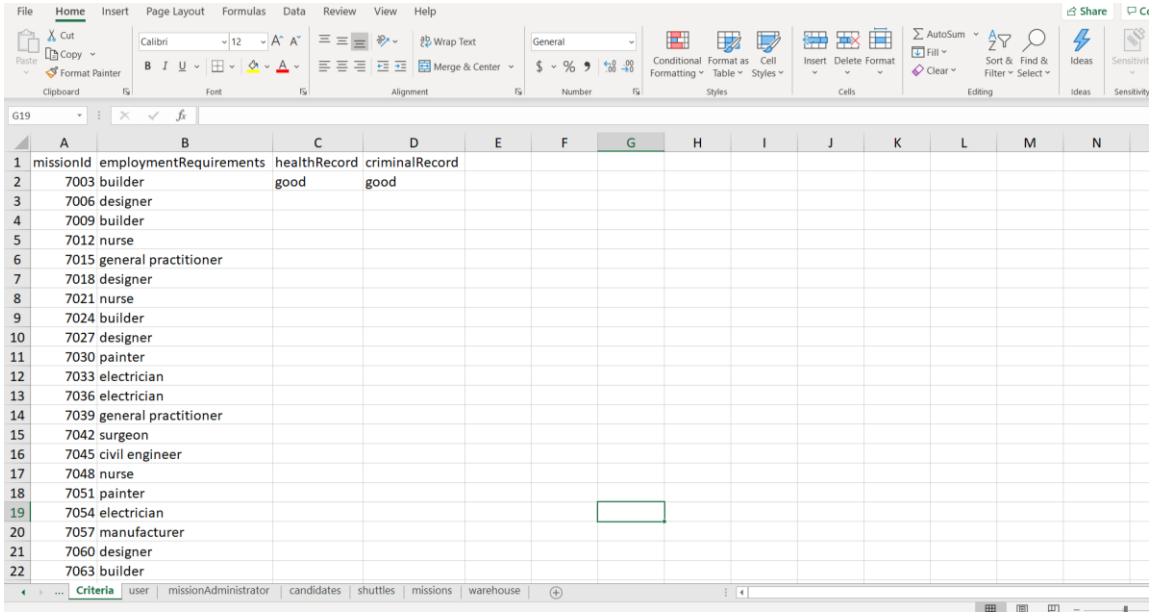
For this assignment we have been given the criteria “Years of Work Experience”, “Health records” and “Criminal records”. The system will ask the administrator to provide the information for these three types.

```
File  Edit  Tabs  Help
========================================
<<<<<<<<<<   MISSION TO MARS   >>>>>>>>>>
========================================

*** Create Employment Selection Criteria ***

Mission ID 7003 - Sun (Shuttle ID 795)
Employment Title: builder

List of criteria created
1. Years of Work Experience: 5
2. Health Record: good
3. Criminal Record: good


Please select from the following options
1. Add criteria
2. Remove criteria
3. Go back to MAIN MENU

Enter your option (1-3):
```

```
File  Edit  Tabs  Help
========================================
<<<<<<<<<<   MISSION TO MARS   >>>>>>>>>>
========================================

*** Create Employment Selection Criteria ***

Mission ID 7003 - Sun (Shuttle ID 795) is selected

List of employment requirements
1. builder

Please enter the employment requirement number
OR enter 0 to go back to MAIN MENU:
1

You entered number 1
Press ENTER to continue
```

6.1 Assumption:

For creating selection criteria, we only have created selection criteria for three criteria according to the decision of the tutor. After creating the criteria, the data was saved in excel file in the page called “criteria.”



missionId	employmentRequirements	healthRecord	criminalRecord
7003	builder	good	good
7006	designer		
7009	builder		
7012	nurse		
7015	general practitioner		
7018	designer		
7021	nurse		
7024	builder		
7027	designer		
7030	painter		
7033	electrician		
7036	electrician		
7039	general practitioner		
7042	surgeon		
7045	civil engineer		
7048	nurse		
7051	painter		
7054	electrician		
7057	manufacturer		
7060	designer		
7063	builder		

7 Selecting candidates (Feature 5):

When the user logs in as an administrator and types “4” s/he will be takes to the page which display the list of selected candidates.

```
You entered menu number 4.
Finding details of suitable candidates.
Candidate Name: Len Hale
Candidate Name: Bianca Espinoza
Candidate Name: Anika Frost
Candidate Name: Kessie Barlow
Candidates are listed in order of suitability. Enter any number to send an offer to the first candidate.
```

(list of selected candidates)

The system will send the offer letter to the selected candidates one by one. Also it will check if the candidate has accepted or not.

```
1
Candidate in first row has been informed of their selection.
Checking if the candidate has accepted or rejected their offer........

_____________________________________________________________
The candidate has accepted the offer.
The total number of offers accept is 1. Total number of positions left to be filled are: 3
Candidate Name: Kessie Barlow
Candidate Name: Lawrence Campbell
Candidate Name: Allistair Gilbert
Candidate Name: Jaden Curtis
Candidates are listed in order of suitability. Enter any number to send an offer to the first candidate.
```

If the candidate rejects an offer the system will notify the administrator and will provide him with the next "N" best candidates (in this case N=4).

```
1
Candidate in first row has been informed of their selection.
Checking if the candidate has accepted or rejected their offer........

_____________________________________________________________
The candidate has rejected the offer. A new replacement must be found.
Candidate Name: Bianca Espinoza
Candidate Name: Anika Frost
Candidate Name: Kessie Barlow
Candidate Name: Lawrence Campbell
Candidates are listed in order of suitability. Enter any number to send an offer to the first candidate.
```

When all the candidates are selected it will notify the Coordinator.

```
1
Candidate in first row has been informed of their selection.
Checking if the candidate has accepted or rejected their offer........

_____________________________________________________________
The candidate has accepted the offer.
The total number of offers accept is 4. Total number of positions left to be filled are: 0
The coordinator has been informed that recruitment is complete.
Press ENTER to continue
```

7.1 Assumptions:

This feature heavily depends on feature 4 and our team is not doing that. For that reason we have hard coded the value for as the number of best candidates. And we have taken the value of the name cell of candidate list and have shown to the administrator. For the acceptance and rejection part is created using a random number generator. When an offer is made to the candidate the excel sheet is updated with that value.

	name	date of birth	street	city	postal	country	phone	identificationType	gender	allergies	foodPreferen	qualifications	yearsOfWorkExp	occupation	computerSkil	languagesKnown	offer
2	Len Hale	07/22/2004	P.O. Box 549, 3604	Seevetal	85200	Heard Island and Mcdc	178-9940	PAN	female	cereals	vegan	Masters	3yr	surgeon	expert	portugese, french	Y
3	Bianca Espinoza	12/07/1986	P.O. Box 420, 156	Banbury	18722	Grenada	849-2326	SSN	female	pork	kosher	Bachelor	2yr	electrical engineer	expert	bengali, russian	Y
4	Anika Frost	03/10/2002	8904 Ante Ave	My	11236	Andorra	1-912-959-6267	ABN	male	peanuts	kosher	Masters	4yr	general practitioner	advanced	malay	Y
5	Kessie Barlow	01/24/1995	Ap #286-3953 At R	Cap-de-la-Madelein	38520	Turkmenistan	1-779-771-4961	ADHAAR	female	pasta	kosher	Bachelor	10yr	painter	expert	french, spanish, russian	Y
6	Lawrence Campbell	01/21/1994	Ap #285-7993 Nisl	Morhet	44526	Kazakhstan	263-6463	ABN	male	cereals	halal	Graduate	2yr	builder	expert	hindi, mandarin, italian, russian	Y
7	Allistair Gilbert	04/21/2009	P.O. Box 963, 196	Portrua	62854	Japan	149-1097	SSN	female	none	halal	Masters	12yr	programmer	expert	bengali	Y
8	Jaden Curtis	09/09/1982	454 Euismod St.	Eckville	23221	Syria	1-379-888-8028	PAN	male	peanuts	kosher	Masters	2yr	designer	advanced	bengali, arabic	Y
9	Alika Reynolds	08/06/2000	Ap #913-1525 Con	Machynlleth	60022	Spain	1-110-763-7868	ADHAAR	female	beef	vegan	Bachelor	15yr	civil engineer	intermediate	english, hindi	Y
10	Dante Meagwan	02/06/1990	P.O. Box 922, 8478	Pau	41080	Tunisia	596-0152	SSN	female	pasta	vegan	Graduate	12yr	mason	advanced	french, bengali, hausa	

(Candidate has been offered the opportunity, updated in the excel file)