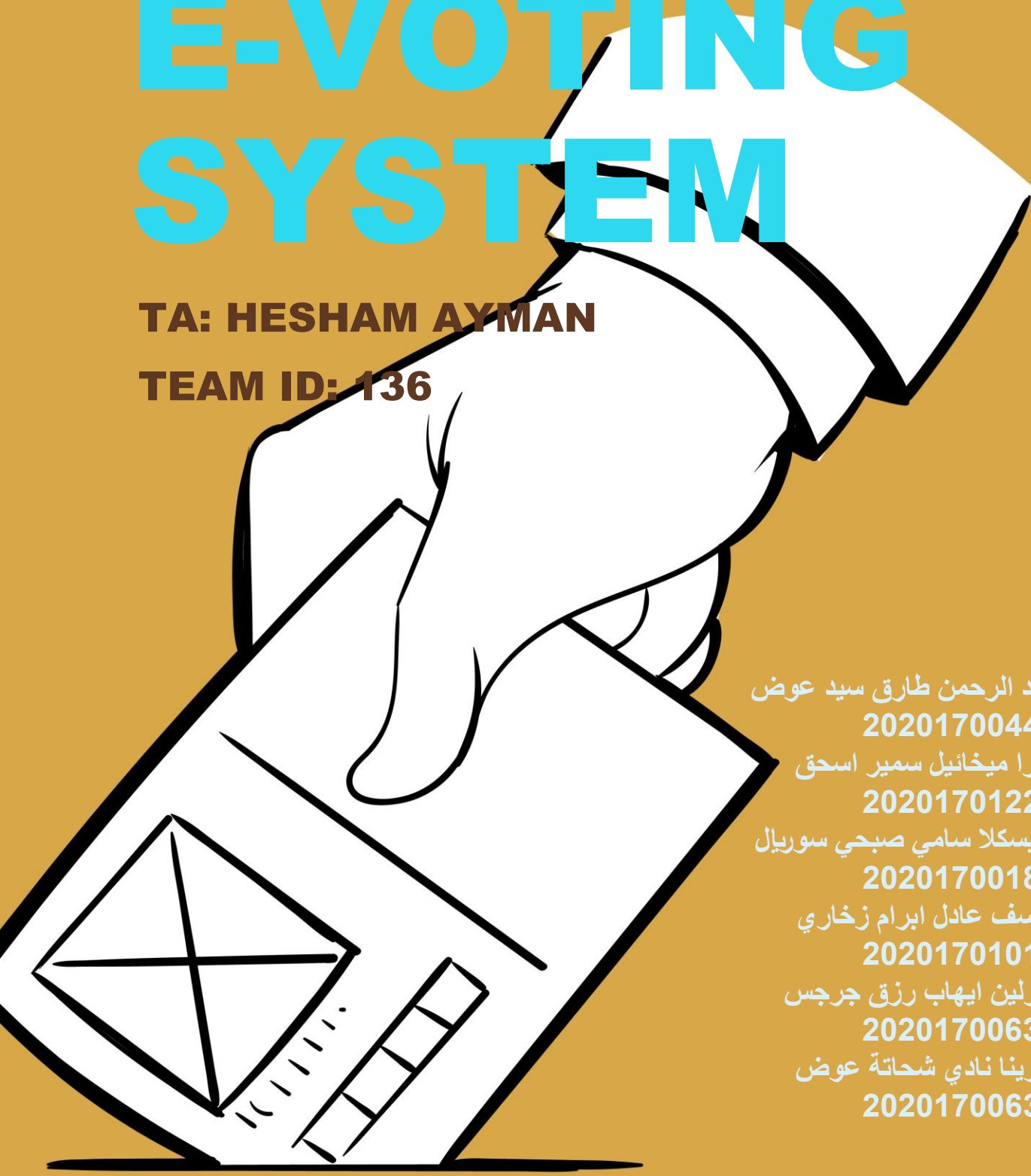


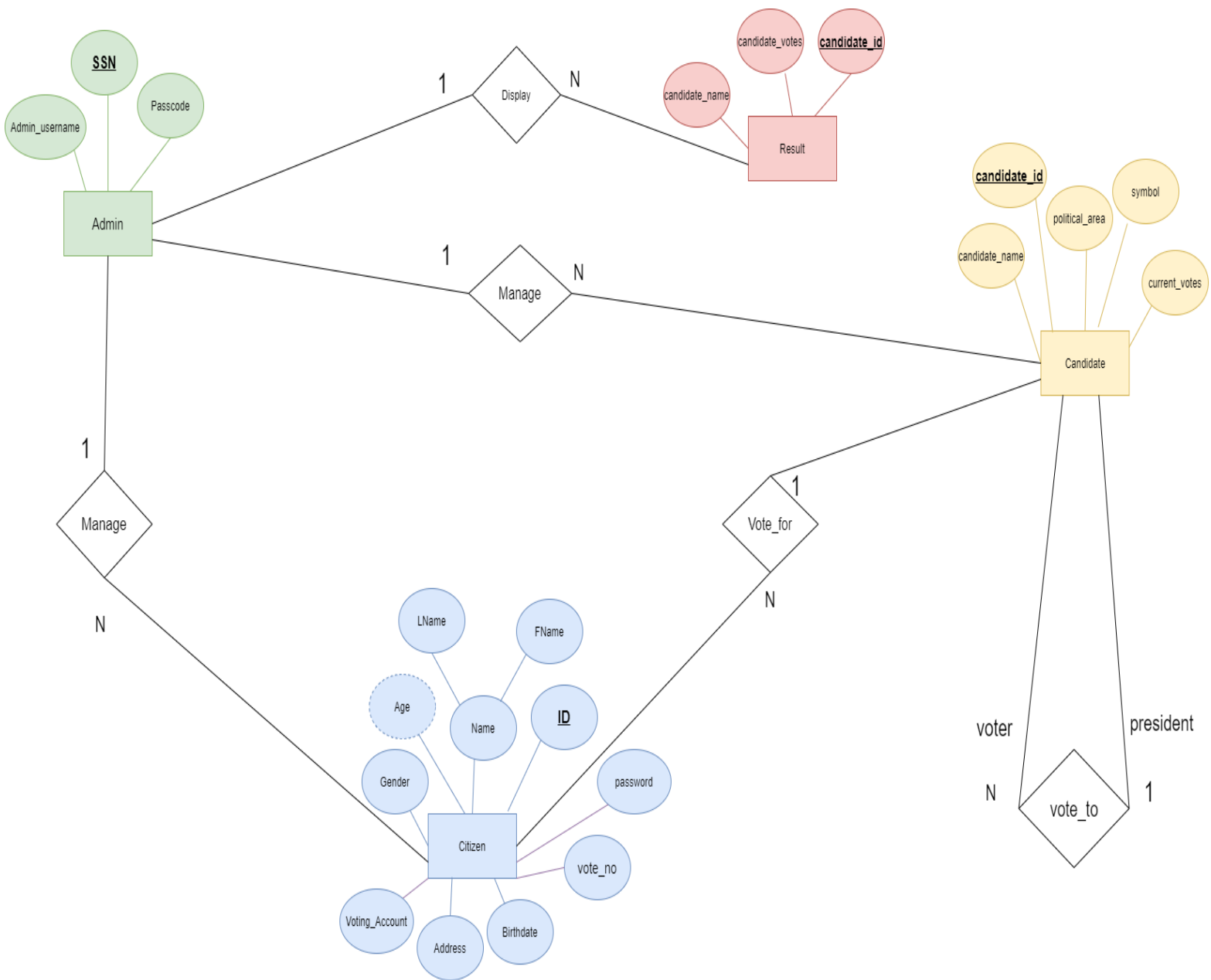
E-VOTING SYSTEM

TA: HESHAM AYMAN

TEAM ID: 136



- عبد الرحمن طارق سيد عوض
20201700441
- ميرا ميخائيل سمير اسحق
20201701226
- بريسكلا سامي صبحي سوريال
20201700184
- يوسف عادل ابرام زخاري
20201701017
- مارلين ايهاب رزق جرجس
20201700630
- مارينا نادي شحاتة عوض
20201700636



citizen

<u>ID</u>	FName	LName	Voting_Account	Address	Birthdate	Gender	vote_no	password	Candidate_id	AdminSSN
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Candidate

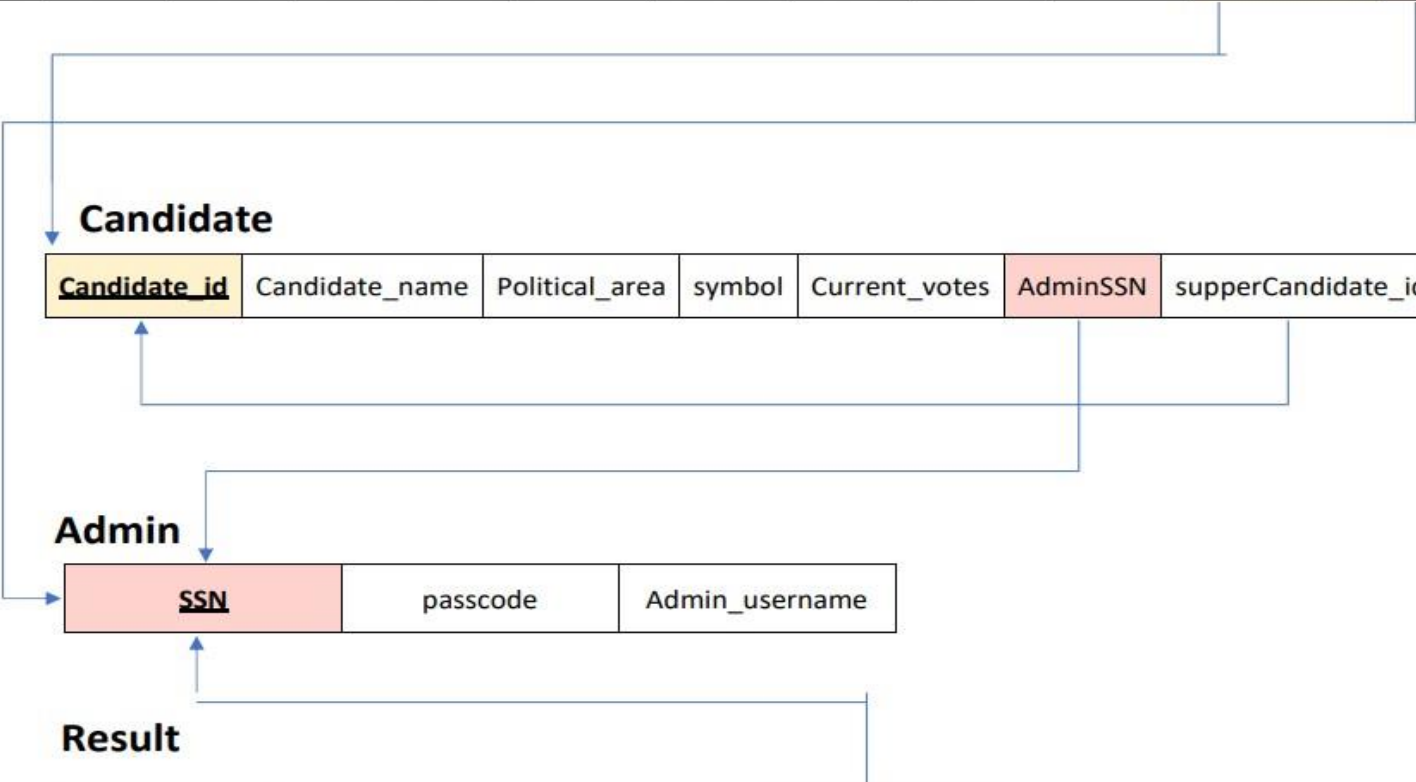
<u>Candidate_id</u>	Candidate_name	Political_area	symbol	Current_votes	AdminSSN	supperCandidate_id
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Admin

<u>SSN</u>	passcode	Admin_username
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Result

<u>Candidate_id</u>	Candidate_name	Candidate_votes	AdminSSN
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Due to the fact that elections are being placed in the United States during the Covid-19 outbreak, we needed to develop an E-voting system to handle the election process.

- Each **citizen** has a name, address, birth date, gender, unique id, a voting account that enables the citizen to login into the voting system, a password which through the citizen can access his account, and a voting number that will be used later to calculate the **results**.
- **Candidates** being elected each has a name, political area that he represents, symbol, unique id, and current votes number that counts how many elective votes does each has.
 - Each citizen can vote for only one candidate, but a candidate can be voted by many citizens.
 - Each candidate has the right to vote either for himself or for one of the other candidates.
 - If the candidate wants to vote he can vote for only one candidate, but he can be elected by many other candidates.
- This E-voting system has only one **admin** due to the sensitivity of the situation. This admin has a username, social security number, and a passcode.
 - The admin manages many citizens and many candidates.
- After the election process ends, we need to calculate the **results**, the **results** contain the name of the candidates, candidates' IDs, and the number of votes for each candidate.
 - The admin can access all the results.

Manage

Admin

Candidate



1 : N

Manage

Admin

Citizen



1 : N

Display

Admin

Result



1 : N

Vote_to

Voter

President



N : 1

Vote_for

Citizen

Candidate



N : 1