

Web Ontology Project: General Election in Pakistan Ontology

(ORSD)

Submitted to:

Sir Fahad Maqbool

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BSEF19M018 - Kiran
BSEF19M014 - Sehrish Noreen
BSEF19M013 - Rabia Ehsan

Ontology Requirement Specification Document

Purpose

Purpose of Election ontology is to provide knowledge representation of the election activities, conducting elections in Pakistan and electing the Prime Minister and President.

Scope

"General Election process in Pakistan" is emphasized in the ontology.

Implementation Language

OWL will be used to implement the ontology.

Intended Users

User 1: ECP Officials

User 2: Voters

User 3: Candidates

User 4: Presiding Officers

User 5: Returning Officers

User 6: Media

User 7: Political Parties' officials

User 8: Polling Agents

User 9: Political Science teachers/students

Intended Uses

<u>Use 1:</u> To explain the election process to voters/candidates

<u>Use 2:</u> Provide knowledge to the politics' students/teachers

Use 3: ECP can use it to collect data for elections

Ontology Requirements

Non-Functional Requirements

- Ontology should be general and flexible in nature to be adopted in any country.
- Ontology should provide with accurate knowledge about elections.

Functional Requirements

Groups of Competency Questions

G1: Campaign

- 1. How much money a candidate can spend in campaign?
- 2. How many days to campaign?
- 1. Which party members can take part in campaign?
- 2. How many days to campaign?

G2: Pre-Polling

- 1. Who is eligible to vote?
- 2. Who is eligible candidate to contest in election?
- 3. How many polling stations to provide?
- 4. How many total registered voters in Pakistan?
- 5. What is number of female voters?
- 6. What is number of male voters?
- 7. Which party will form govt. (highest votes)?
- 8. Which party will form opposition (second highest votes)?
- 9. What is total number of constituencies in Pakistan?
- 10. What is population and number of voters in each constituency?
- 11. How many candidates in country/constituency?
- 12. What is total number of parties contesting in election?
- 13. How many days to go in elections?

- 14. How many Independent candidates in each constituency?
- 15. What is total number of seats in Parliament?
- 16. How many reserved seats in Parliament?
- 17. How many seats required for simple majority?
- 18. How many seats required for 2/3rd majority?
- 1. Who is eligible to vote?
- 2. How many candidates/parties a voter can vote for, at one time?
- 1. Who is eligible candidate to contest in election?
- 2. Where to submit nomination forms?
- 3. How many days to submit nomination forms?
- 5. How much money a candidate can spend in campaign?
- 6. What is candidate's symbol in election?
- 1. Which party will form govt. (highest votes)?
- 2. Which party will form opposition (second highest votes)?
- 3. How many seats required for simple majority?
- 4. How many seats required for 2/3rd majority?
- 5. What is total number of seats in Parliament?
- 6. How many reserved seats in Parliament?
- 7. What is total number of parties contesting in election?
- 8. How many tickets can we give in one constituency?
- 9. Who can take part in campaign from the parties?
- 10. Who will provide results to parties?
- 11. What are eligibility criteria for parties, to contest?
- 12. What is each party's election symbol?

G3. During Polling:

- 1. How many times one voter can cast vote?
- 2. What is time to cast the vote?
- 3. Where can voter cast the vote?
- 1. Which vote to accept?
- 2. Which vote to reject?

G4. After-Polling

- 1. How many days to announce final results of election?
- 2. What was the turn out?
- 3. What is number of total votes for each party in Pakistan?
- 4. Which party won the election in Pakistan?
- 1. Which party won the election in Pakistan?
- 1. Which candidate won in constituency?
- 2. Which party won the election in Pakistan?
- 1. Which party won the election in Pakistan?
- 1. How many votes for each candidate, after counting?
- 2. Which candidate won in constituency?
- 3. Where to submit constituency results?
- 1. From where to collect result form (Form 47/45)
- 1. Which party won the election in Pakistan?
- 2. When to share results with public?

G5. PM/CM/President Election:

- 1. Who won the CM/PM/President election?
- 1. Who won the CM/PM/President election?
- 1. Who can contest for CM/PM/President election?
- 2. How many votes required to get elected?
- 3. Who can cast vote to elect the CM/PM/President?
- 4. Who won the CM/PM/President election?
- 5. How many days to take oath after winning election of CM/PM/President?
- 1. Who won the CM/PM/President election?

1. Who won the CM/PM/President election? *Political Science Students/Teachers Do not actively take part in election process (only take part as voters/PrOs/ROs). These users can ask all the above listed groups' questions for studies or teaching purposes. Moreover, they can suggest reforms. **Pre-Glossary of Terms** Election Process, Vote, Voter, Candidates, ECP, Constituency, Seats, Parties, Agents, Polling Stations, Parliament.