

Program to bookmark doctor or patient:

```
}
      else{
        jsonify(status=True, message="Added to My Doctors");
      }
      END;
    }
    else{
      cur.execute("'DELETE FROM bookmarks WHERE b_source=%s AND b_destination=%s"',
            (source_token, destination_token));
      mysql.connection.commit();
      if role == 2{
        jsonify(status=False, message="Removed from My Patients");
      }
      else{
        jsonify(status=False, message="Removed from My Doctors");
      }
END;
```

CYCLOMATIC COMPLEXITY

- (i) V(G) = E N + 2 = 19 16 + 2 = 5
- (ii) V(G)=Nos of predicate nodes + 1 = 0 + 1 = 1
- (iii) V(G)=Nos of regions = 4

INDEPENDENT PATHS

1-2-3-4-5-6-7-9-11-12-16 1-2-3-4-5-6-7-9-11-13-16 1-2-3-4-5-6-8-10-12-14-16 1-2-3-4-5-6-8-10-12-15-16

TEST CASE ID	EXPECTED RESULT	INDEPENDENT PATH
1	Add doctor to bookmarks	1-2-3-4-5-6-7-9-11-12-16
2	Remove doctor from bookmarks	1-2-3-4-5-6-7-9-11-13-16
3	Add patient to bookmarks	1-2-3-4-5-6-8-10-12-14-16
4	Remove patient from bookmarks	1-2-3-4-5-6-8-10-12-15-16