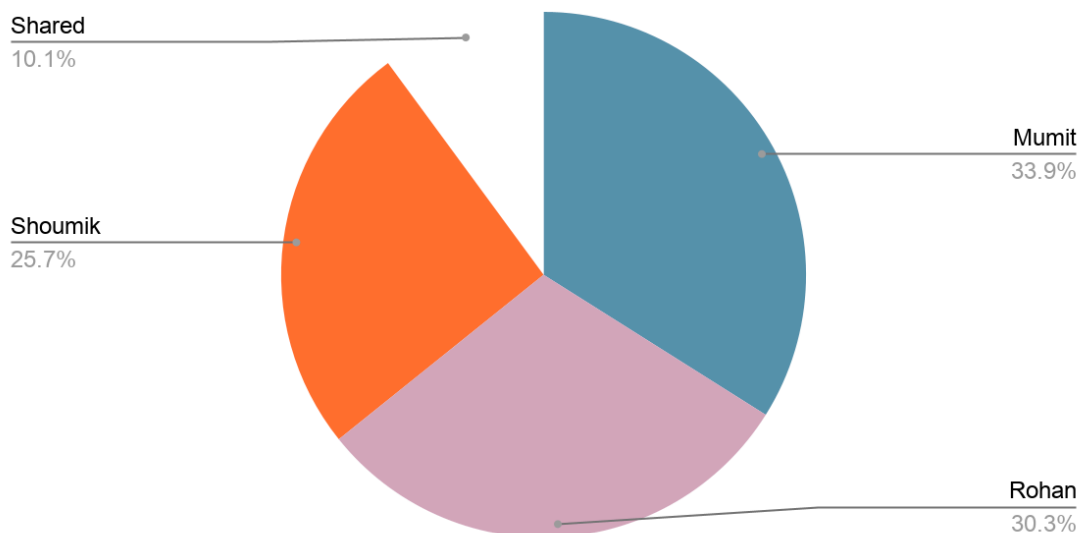


Work Distribution Summary(pooled from checklist) :

| Member | Work done |
|---------|--|
| Mumit | Static route planning (Gulshan↔Kamrangirchar + Kamrangirchar↔Gulshan + route cleanup notes), RIP v2 planning + RIP v2 deployment notes, DHCP relay note (ip helper-address 11.37.16.10), EMAIL_ONLY ACL idea + ACL implementation/testing, DNS service setup (www.dhaka.gov record + client DNS testing), HTTP service setup (web enable + homepage + browse test), report artifacts |
| Shoumik | Router base configs (hostnames + LAN/WAN IPs + interface bring-up + save), WAN bring-up (serial + clock rate + link readiness), initial static routing (Mirpur default route + Motijheel/Dhanmondi static routes), email service setup (SMTP/POP3 + users + send/receive + blocked test), PC IP configuration (static + DHCP clients + gateways + DNS), final routing validation, report artifacts |
| Rohan | Static route plan (Secretariat↔Gulshan recursive), floating static backup (Motijheel→Secretariat + AD 200), failover testing (shutdown + route table verification), backup link prep (Dhanmondi serial 11.37.100.22/30), DHCP service setup (pools for Mirpur + Dhanmondi + exclusions + gateway/DNS + lease verify), final routing validation, report artifacts |

Work Contribution Pie:

Work Contribution



Work Distribution checklist details:

| Member | Contribution category | Subtasks | Associated service(s) |
|-----------------------------|------------------------------|--|------------------------------|
| Mumit+ Rohan+ Shoumik | VLSM plan | Subnetting for 6 areas; correct masks (/21,/22,/23,/24,/24,/25); usable IP ranges; gateway planning. | Addressing |
| Mumit | Static route plan | Gulshan↔Kamrangirchar directly-attached; Kamrangirchar↔Gulshan static; cleanup notes for wrong routes. | Routing |
| Rohan | Static route plan | Secretariat↔Gulshan recursive; | Routing |
| Mumit | RIP v2 plan | RIP v2 version/no auto-summary; network 11.0.0.0; passive LAN guidance; convergence notes. | Routing |
| Mumit | DHCP relay note | Documented ip helper-address 11.37.16.10 on Dhanmondi LAN interface. | DHCP Relay |
| Mumit | Email ACL note | Documented EMAIL_ONLY ACL idea (deny SMTP/POP3 from other subnets; permit any any). | Email security |
| Shoumik | Router base configs | Hostnames; LAN interface IPs; serial interface IPs; interface bring-up; saving configs. | Core routing infra |
| Shoumik | WAN bring-up | Serial links configured; clock rate where needed; no shutdown; basic link readiness. | WAN connectivity |

| | | | |
|---------|--------------------------|---|----------------|
| Shoumik | Static routing (initial) | Default route on Mirpur; multiple static routes on Motijheel; multiple static routes on Dhanmondi (before RIP fully relied on). | Routing |
| Mumit | RIP v2 deployment | Enabled RIP v2 on routers shown; no auto-summary; network statement; saved config. | Routing |
| Rohan | Floating static backup | Configure floating static route Motijheel→Secretariat; adjust AD to 200; confirm route list in running-config. | Backup routing |
| Rohan | Failover test | Shutdown interface to simulate failure; confirm backup route behavior through route table output. | Backup routing |
| Rohan | Backup link prep | Address/bring-up Dhanmondi serial interface used for backup path (11.37.100.22/30). | Backup routing |
| Mumit | DNS service setup | Add DNS A record; map www.dhaka.gov to web server IP; set DNS IP on clients; verify name resolution. | DNS |
| Mumit | HTTP service setup | Enable HTTP; create homepage content; verify browsing using www.dhaka.gov. | HTTP |
| Shoumik | Email service setup | Enable SMTP + POP3; create user accounts; send mail within allowed areas; verify blocked areas fail. | SMTP / POP3 |

| | | | |
|-------------------------|----------------------------|---|--------------------|
| Rohan | DHCP service setup | Create DHCP pools (Mirpur + Dhanmondi); exclude gateway/server IPs; assign DNS + default gateway; verify leasing. | DHCP |
| Shoumik | PC IP configuration | Static IPs for required areas; DHCP clients for required areas; set gateways; set DNS server IP. | End-device config |
| Mumit | ACL implementation/testing | Apply EMAIL_ONLY ACL to correct interface/direction; verify SMTP/POP3 blocked from non-allowed subnets; HTTP still works. | Security / ACL |
| Shoumik + Rohan + Mumit | Final routing validation | Ping between any two subnets; verify RIP learned routes; verify fallback route works when primary fails. | Routing validation |
| Mumit + Rohan + Shoumik | Report artifacts | Topology diagram; VLSM tree; IP table; router command list; screenshots of service tests. | Documentation |