

Project Title: Mobile Manipulator for Automating Delivery of Essentials in Hospitals

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| 1. Selection of Robot model | Ramit |
| 2. Robot model practical design suggestion | Sayeed |
| 3. Hospital room design and automated door control | Ramit |
| 4. Robot <i>demo</i> simulation via lua script | Himaddri |
| 5. Setup of remote api connection with MATLAB | Himaddri |
| 6. Basic control algorithm for mobile robot and line following implementation | Himaddri |
| 7. Control for going to rooms and returning to dispatch center | Prionto |
| 8. Object detection with vision sensor | Tusher |
| 9. Robot arm control for object pickup and placement | Sayeed |
| 10. Obstacle avoidance with proximity sensor | Prionto |