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| **Group** 27 | Item Tracker |
| **Major:** | **Team members:** |
| CS | Mohammad Aljagthmi |
| EE | Ryan Ly |
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**System Design Trades**

Hardware design trades

1. Controller
2. Size
3. Wi-Fi Compatibility
4. Controller
5. Lighting
6. Size
7. Power consumption
8. Power source
9. Size
10. Voltage output
11. Mobile device
12. Wi-Fi compatibility
13. Use of mobile applications
14. Case
15. Damage resistance
16. Attachment method
17. Secure attachment
18. Removable
19. Capable of reattachment

Software design trades

1. GUI
   1. Programming language
      1. Requirement 3.0
      2. Requirement 7.0
      3. Team Familiarity
      4. Portability
      5. Compatibility with Android
      6. Location Tracking Libraries
      7. Database Interaction API
   2. Platform for delivery
2. Database
   1. Database language
   2. Database model
   3. Database interaction API
3. Background Services
   1. API
   2. Communication to Database
4. OS Communication
   1. API
   2. Communication to External Services
5. Tracker
   1. API
   2. Communication methodology to transmit data
   3. Structure of data transmitted
   4. Data transmission interval