1. BL
   1. Initiation
      1. Develop project idea
      2. Prepare project
      3. Q&A Management
      4. Technologies
         1. Research development technologies
         2. Install and configure Eclipse IDE and Android SDK
         3. Training Java, Android SDK & Eclipse IDE
         4. Install and configure gitHub for Desktop
         5. Install and configure Visual Studio, SQL Server
         6. Study web service using .NET & SQL Server
         7. Research Google map API & Facebook API
         8. Design Database model
      5. Requirements
         1. User Requirements Specification
            1. Collect business requirements and processes
            2. Create draft requirements
            3. Complete draft requirements
            4. Complete User Requirement Specification
            5. Develop main function and processes
         2. Screen Prototypes
            1. Create draft screen prototypes
            2. Review screen prototypes
            3. Update screen prototypes
            4. Complete screen prototypes
         3. Software Requirements Specification
            1. Functional Requirement Specification

Bus Driver Module

Send bus info module

Bus Rider Module

Account module

Sign up module

Sign in/ sign out module

Edit profile module

Forgot password module

Sync module

Connect Facebook module

Show Favorite place module

Show Favorite bus module

Add/remove Favorite place module

About module

Bus module

Bus list module

Bus info module

Bus route module

Bus nearest module

Bus map module

Set/unset favorite bus module

Remind module

Track module

Get notification module

Swap direction module

Shigeki module

Achievement module

Collection module

Mission module

Statistic module

Rank module

Scan QR code module

Search module

Search bus module

Search route module

Search Favorite bus module

Search Favorite place module

Setting module

* + - * 1. Non-functional Requirement Specification

Develop User Interface Requirement

Develop Performance Requirement

* + 1. Develop Project plan
       1. Develop project definition
       2. Develop Work Breakdown Structure
       3. Create Project Schedule
       4. Create Configuration Management Plan version 1.0
       5. Create Project Plan (first version)
       6. Review Project Plan (first version)
       7. Complete Project Plan (final version)
    2. Report no.1
       1. System feasible study
       2. Define business situation
       3. Define project and system scope
       4. Review Report no.1 (draft version)
       5. Update Report no.1 (draft version)
       6. Submit Report no.1 (first version)
       7. Revise after got comments for Report no.1
       8. Kick-off meeting
       9. Progress Report 1
       10. SRS/PP Review checklist
           1. Develop review checklist
           2. Review review checklist
           3. Update review checklist
           4. Complete review checklist
       11. Submit Report no.1 (final version)
  1. Solution
     1. Design
        1. Architecture design
           1. Define system structure and collect system features
           2. Study & choose System Architecture
           3. Complete System Architecture version 1.0
        2. Detailed design
           1. User Interface design

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Collection module

Mission module

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Rank module

Scan QR code module

Search module

Search bus module

Search route module

Search Favorite bus module

Search Favorite place module

Setting module

* + - * 1. Database design

Complete Database Design version 1.0

* + - * 1. Class design

Define class/component

Complete Class Design version 1.0

* + 1. Progress Report 2
    2. Q&A Management (update)
    3. Design Review checklist
       1. Develop review checklist
       2. Review review checklist
       3. Update review checklist
       4. Complete review checklist
    4. Report no.2
       1. Develop Report no.2 (draft version)
       2. Review Report no.2 (draft version)
       3. Update Report no.2 (draft version)
       4. Submit Report no.2 (first version)
       5. Revise after got comments for Report no.2
       6. Submit Report no.2 (final version)
    5. Coding & Unit Testing
       1. Bus Driver Module
          1. Send bus info module
       2. Bus Rider Module
          1. Account module

Sign up module

Sign in/ sign out module

Edit profile module

Forgot password module

* + 1. Testing
       1. Develop test plan
       2. Review test plan
       3. Update test plan
  1. Construction
     1. Coding & Unit testing (continue)
        + 1. Sync module
          2. Connect Facebook module
          3. Show Favorite place module
          4. Show Favorite bus module
          5. Add/remove Favorite place module
          6. About module
        1. Bus module
           1. Bus list module
           2. Bus info module
           3. Bus route module
           4. Bus nearest module
           5. Bus map module
           6. Set/unset favorite bus module
           7. Remind module
           8. Track module
           9. Get notification module
           10. Swap direction module
        2. Shigeki module
           1. Achievement module
           2. Collection module
           3. Mission module
           4. Statistic module
           5. Rank module
           6. Scan QR code module
        3. Search module
           1. Search bus module
           2. Search route module
           3. Search Favorite bus module
        4. Complete coding
     2. Test review checklist
        1. Develop review checklist
        2. Review review checklist
        3. Update review checklist
        4. Complete review checklist
     3. Testing
        1. Unit test
           1. Develop unit test case
           2. Review unit test case
           3. Update unit test case
        2. Integration test
           1. Develop integration test case
           2. Review integration test case
           3. Update integration test case
        3. System test
           1. Develop system test case
           2. Review system test case
           3. Update system test case
        4. Execute test & fix bugs
           1. Round 1

Execute unit test

Fix bugs unit test

Execute integration test

Fix bugs integration test

Execute system test

Fix bugs system test

* + - * 1. Round 2

Execute unit test

Fix bugs unit test

Execute integration test

Fix bugs integration test

Execute system test

Fix bugs system test

* + - * 1. Execute acceptance test & collect data
      1. Test Report
         1. Develop test report
         2. Review test report
         3. Update test report
         4. Complete test report
    1. Q&A Management (update)
    2. Progress report 3
    3. Report no.3
       1. Develop Report no.3 (draft version)
       2. Review Report no.3 (draft version)
       3. Update Report no.3 (draft version)
       4. Submit Report no.3 (first version)
       5. Revise after got comments for Report no.3
       6. Submit Report no.3 (final version)
    4. Code Review checklist
       1. Develop review checklist
       2. Review review checklist
       3. Update review checklist
       4. Complete review checklist
    5. Progress report 4
    6. Report no.4
       1. Develop Report no.4 (draft version)
       2. Review Report no.4 (draft version)
       3. Update Report no.4 (draft version)
       4. Submit Report no.4 (first version)
       5. Revise after got comments for Report no.4
       6. Submit Report no.4 (final version)
    7. Quality report
       1. Develop quality report
       2. Review quality report
       3. Update quality report
       4. Complete quality report
    8. Progress report 5
    9. Report no.5
       1. Develop Report no.5 (draft version)
       2. Review Report no.5 (draft version)
       3. Update Report no.5 (draft version)
       4. Submit Report no.5 (first version)
       5. Revise after got comments for Report no.5
       6. Submit Report no.5 (final version)
  1. Termination
     1. Report no.6
        1. Complete source code & final report
        2. Develop installation guide
        3. Develop user guideline
        4. Complete Project Result Assessment
        5. Conduct lessons learned
        6. Complete Presentation slide
        7. Review Report no.6 (draft version)
        8. Update Report no.6 (draft version)
        9. Submit Report no.6 (first version)
        10. Revise after got comments for Report no.6
        11. Submit Report no.6 (final version)
        12. Submit Final report & CD source code
     2. Pre-closing
        1. Training presentation
     3. Closing
        1. Present Capstone Project & Completed