**TSE2101**

**Final Report**

**for**

**Foreign Worker Agency System**

**Version 3**

**Group No.: *1***

**ALI <1131119183>**

**MUTHU <1141328742>**

**AH HOCK <1141328079>**

**Submission Date: 21-11-2021**

**Contents**

**CONTENTS ............................................................................................................................................................................... 2 REVISIONS ............................................................................................................................................................................... 4**

**1 PROJECT MANAGEMENT............................................................................................................................................. 5**

1.1 TEAM MEMBERS ............................................................................................................................................................ 5

1.2 PROJECT PLAN .............................................................................................................................................................. 5

**2 SYSTEM OVERVIEWS.................................................................................................................................................... 6**

2.1 DESCRIPTION................................................................................................................................................................... 6

2.2 ACTORS........................................................................................................................................................................... 7

2.3 ASSUMPTIONS AND DEPENDENCIES.............................................................................................................................. 8

2.4 USE CASE DIAGRAM ...................................................................................................................................................... 9

**3 BASIC REQUIREMENTS................................................................................................................................................ 13**

3.1 WORKER ....................................................................................................................................................................... 13

3.2 COMPANY ..................................................................................................................................................................... 17

3.3 STAFF............................................................................................................................................................................. 25

3.4 MANAGER ..................................................................................................................................................................... 34

**4 SPECIFIC REQUIREMENTS ......................................................................................................................................... 38**

4.1 CLASS DIAGRAMS ......................................................................................................................................................... 38

4. 2. SEQUENCE DIAGRAM…………………...………………..…………………………..……………………………….40

**5 BEHAVIOURAL REQUIREMENTS (\*\* OPTIONAL) ................................................................................................. 64**

5.1 STATE DIAGRAMS ......................................................................................................................................................................................... 64

5.2 DATA FLOW DIAGRAMS ............................................................................................................................................................................ 72

5.3 ACTIVITY DIAGRAMS…………………………...………………………………………..………………………………………………...73

**6 DATA DESIGN............................................................................................................................................................... 77**

6.1 ENTITY RELATIONSHIP DIAGRAM (ERD)............................................................................................................................................... 77

6.2 DATA DICTIONARY (\*OPTIONAL) ..................................................................................................................................... 83

**7 ARCHITECTURE DESIGN........................................................................................................................................... 86**

7.1 SOFTWARE ARCHITECTURE............................................................................................................................................ 86

**8 INTERFACE DESIGN........................................................................................................................................................ 91**

8.1 MAIN SCREENS................................................................................................................................................................................................. 91

8.2 SUBSYSTEM 1 SCREENS (WORKER)............................................................................................................................................................ 92

8.3 SUBSYSTEM 2 SCREENS (COMPANY)......................................................................................................................................................... 95

8.4 SUBSYSTEM 3 SCREENS (STAFF) ............................................................................................................................................................... 107

8.5 SUBSYSTEM 4 SCREENS (MANAGER) ..................................................................................................................................................... 121

**9 COMPONENT DESIGN................................................................................................................................................. 126**

9.1 MAIN COMPONENTS....................................................................................................................................................... 126

**10 DEPLOYMENT DESIGN............................................................................................................................................. 171**

10.1 DEPLOYMENT DIAGRAM .......................................................................................................................................... 171

**11 TESTING RESULT ………................................................................................................................................... 178**

11.1 TEST CASE 1 (WORKER)........................................................................................................................................................................ 178

11.2 TEST CASE 2 (COMPANY)...................................................................................................................................................................... 178

11.3 TEST CASE 3 (STAFF) ............................................................................................................................................................................. 179

11.4 TEST CASE 4 (MANAGER)..................................................................................................................................................................... 179

**12 PROTOTYPE SCREENS........................................................................................................................................ 180**

12.1 WORKER ................................................................................................................................................................................................ 180

12.2 COMPANY ............................................................................................................................................................................................. 183

12.3 STAFF...................................................................................................................................................................................................... 190

12.4 MANAGER ............................................................................................................................................................................ 198

**13 CONCLUSIONS ....................................................................................................................................................... 201**

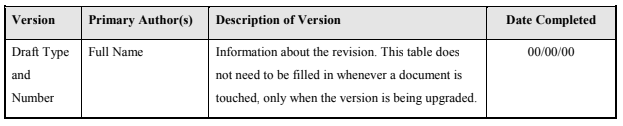
13.1 SUMMARY OF RESULTS ......................................................................................................................................... 201

13.2 PROBLEMS ENCOUNTERED..................................................................................................................................... 201

13.3 LIMITATIONS AND FUTURE ENHANCEMENTS......................................................................................................... 201

**14 USER GUIDES (\*OPTIONAL) .............................................................................................................................. 202**

**Revisions**

****

**Project Management**