# HISS Prototype - Test Plan

This test plan is designed for the Household Installations Service Simulations (HISS) system, following test-driven development. Each test is based on the requirements and sample data from Appendix A.

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| **Test #** | **Purpose** | **Test Data** | **Expected Result** | **Actual Result** |
| **1** | **Hire staff** | **Amir** | **Amir in team, account = 700** | **Enter Staff name**  **Amir**  **Hired: Amir**  **Account = 700.0** |
| **2** | **Hire unavailable staff** | **Amir (already hired)** | **Message: "Staff not available", already hired, account unchanged** | **Enter Staff name**  **Amir**  **Staff not available, already Hired, account unchanged**  **Account = 700.0** |
| **3** | **Hire non-existent staff** | **Bob** | **Message: "Not found: Bob", account unchanged** | **Enter Staff name**  **Bob**  **Not found: Bob**  **Account = 700.0** |
| **4** | **Hire staff with insufficient funds** | **Hui (requires >450)** | **Message: "Not enough money to hire Hui", Hui not in team, account unchanged** | **Enter Staff name**  **Hui**  **Not enough money to hire Hui**  **Account = 400.0** |
| **5** | **Do job with eligible staff** | **Job 1006, Hui hired** | **Job done, account increased by job pay** | **Enter job number (e.g., 1000):**  **1006**  **Job No 1006**  **Job completed by Hui. Earned 800**  **Account = 850.0** |
| **6** | **Do job with no eligible staff** | **Job 1001, no staff hired** | **Job not done, account reduced by penalty** | **Enter job number (e.g., 1000):**  **1000**  **Job No 1000**  **Job not completed due to staff inexperience (Bela)**  **Penalty of 200 applied. Account = 200.0** |
| **7** | **Staff rejoin after holiday** | **Amir goes on holiday, then rejoin** | **Amir back in team, state = Working** | **Enter the number of your choice**  **7**  **Enter Staff name**  **Amir**  **Amir has rejoined the team from holiday.** |
| **8** | **Hire staff already not in tea,** | **Hui(not in team)** | **Message: "Hui not in team”** | **Enter Staff name**  **Hui**  **Hui not in team so can't return from holiday** |
| **9** | **Display all available staff** | **—** | **List of staff not in team/holiday** | **\*\*\*\*\*\*\*\*\*\*\*\* Staff for Hire \*\*\*\*\*\*\*\***  **Jaga,Planner,4,300,60,Available,Homebase**  **Eli,Installer,7,200,20,Available**  **Gani,Installer,2,200,20,Available**  **Ceri,Consultant,4,250,40,Available,true**  **Firat,Planner,6,300,90,Available,Hygena**  **Hui,Consultant,8,450,40,Available,true** |
| **10** | **Display all jobs** | **—** | **List of all jobs** | **\*\*\*\*\*\*\*\*\*\*\*\* All Jobs \*\*\*\*\*\*\*\*\*\*\*\***  **Job#1008 [ Design] Loc: Kitchen ExpReq: 1 Hrs: 8 Penalty: 175**  **Job#1009 [ Design] Loc: Bedroom ExpReq: 2 Hrs: 10 Penalty: 150**  **Job#1000 [ Design] Loc: Kitchen ExpReq: 3 Hrs: 10 Penalty: 200**  **Job#1001 [ Maintenance] Loc: Lounge ExpReq: 3 Hrs: 20 Penalty: 150**  **Job#1002 [ Installation] Loc: Kitchen ExpReq: 3 Hrs: 30 Penalty: 100**  **Job#1003 [ Design] Loc: Bathroom ExpReq: 9 Hrs: 25 Penalty: 250**  **Job#1004 [ Installation] Loc: Lounge ExpReq: 7 Hrs: 15 Penalty: 350**  **Job#1005 [ Maintenance] Loc: Kitchen ExpReq: 8 Hrs: 35 Penalty: 300**  **Job#1006 [ Maintenance] Loc: Bathroom ExpReq: 5 Hrs: 20 Penalty: 400**  **Job#1007 [ Installation] Loc: Bathroom ExpReq: 1 Hrs: 5 Penalty: 120** |