

**Discovering Knowledge**

**FYP logbook**

**Title of the Project**

**“BUILDER MANAGEMENT SYSTEM”**

**Group Member**

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| **Enrollment #** | **Name** |
| 02-131212-009 | Muhammad Shoaib Akhter Qadri |
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**Supervised by**

**Engr. Adnan-ur-Rahman**

**Department of Software Engineering**

**LOG BOOK ENTRY TEMPLATE**

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| **Semester:** | Spring Fall |
| **Date:** |  |
| **Meeting#:** | 1 2 3 4 5 6 7 8 9 10 11 12 13  14 15 16 17 18 19 20 21 22 23 24 |

**Student:** (Meeting minutes/Achievements/Activities)

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| --- |
| Conducted initial meeting to discuss the idea of Builder Management System. |
| Presented the basic concept highlighting real-time communication, transparency, and |
| accountability in construction projects. |
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**Supervisor:** (Suggestions/Comments)

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| Suggested refining the unique features and clearly differentiating them from |
| existing software solutions. |
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**Next Meeting Plan:**

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| Finalize the feature set and begin literature review on existing systems. |
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Supervisor Signatures

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**Student:** (Meeting minutes/Achievements/Activities)

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| --- |
| Conducted literature review, summarized existing systems like BuildTools and |
| Buildertrend, identified gaps in communication and transparency. |
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**Supervisor:** (Suggestions/Comments)

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| Recommended including a detailed comparison table to clearly show the advantage of our |
| proposed system. |
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**Next Meeting Plan:**

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| Prepare detailed comparison and initial project proposal draft. |
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Supervisor Signatures

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**Student:** (Meeting minutes/Achievements/Activities)

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| --- |
| Presented the comparison table and initial proposal draft, focusing on real-time features. |
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**Supervisor:** (Suggestions/Comments)

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| Suggested refining the problem statement and proposed solution to clearly emphasize |
| customer-builder interactions. |
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**Next Meeting Plan:**

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| Complete revised proposal and start creating the initial design mockups. |
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Supervisor Signatures

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**Student:** (Meeting minutes/Achievements/Activities)

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| Completed and presented revised proposal. Created initial wireframes and |
| mockups of the Builder Management System interface. |
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**Supervisor:** (Suggestions/Comments)

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| Approved proposal. Suggested UI consistency and accessibility improvements. |
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**Next Meeting Plan:**

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| Implement feedback on mockups and start backend development. |
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Supervisor Signatures

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**Student:** (Meeting minutes/Achievements/Activities)

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| Improved UI based on supervisor feedback, began backend architecture planning, defined |
| database schemas. |
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**Supervisor:** (Suggestions/Comments)

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| Recommended using flexible database schema design to handle scalability. |
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**Next Meeting Plan:**

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| Set up backend environment and database. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Configured backend environment, established database connectivity, tested basic CRUD |
| operations. |
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**Supervisor:** (Suggestions/Comments)

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| Reviewed backend configuration, suggested robust error handling and security mechanisms. |
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**Next Meeting Plan:**

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| Develop authentication and authorization modules. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Implemented user authentication, roles, and permissions. Tested secure access for builders, |
| admins, and customers. |
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**Supervisor:** (Suggestions/Comments)

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| Approved authentication mechanism. Recommended performance optimization. |
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**Next Meeting Plan:**

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| Start frontend implementation and integrate backend APIs. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Developed frontend architecture using React, integrated backend APIs for user login and |
| dashboard access. |
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**Supervisor:** (Suggestions/Comments)

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| Recommended detailed logging for better debugging and system tracking. |
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**Next Meeting Plan:**

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| Implement logging, begin development of real-time communication module. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Integrated real-time chat system using WebSockets, enabled builder-client direct |
| communication. |
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**Supervisor:** (Suggestions/Comments)

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| Suggested stress-testing to ensure system stability under load. |
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**Next Meeting Plan:**

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| Conduct stress and load testing on communication module. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Conducted stress testing on chat system, improved performance based on test results. |
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**Supervisor:** (Suggestions/Comments)

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| Reviewed test results, suggested UI enhancements for smoother user experience. |
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**Next Meeting Plan:**

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| Make recommended UI enhancements. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Implemented UI enhancements, improved navigation, and user interaction within the chat |
| module. |
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**Supervisor:** (Suggestions/Comments)

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| Approved UI enhancements, recommended beginning integration of documentation |
| features. |
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**Next Meeting Plan:**

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| Start integration of documentation module. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Integrated documentation generation, tested documentation accuracy and readability. |
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**Supervisor:** (Suggestions/Comments)

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| Reviewed documentation integration, suggested more extensive accuracy tests. |
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**Next Meeting Plan:**

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| Conduct detailed accuracy testing for AI documentation module. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Conducted accuracy tests for resolved minor discrepancies. |
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**Supervisor:** (Suggestions/Comments)

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| Recommended moving to task management dashboards. |
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**Next Meeting Plan:**

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| Start developing task management dashboards. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Implemented initial version of task management dashboards. |
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**Supervisor:** (Suggestions/Comments)

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| Reviewed dashboards, suggested UI improvements for better user experience. |
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**Next Meeting Plan:**

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| Enhance dashboard interfaces. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Enhanced dashboards, integrated notifications system. |
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**Supervisor:** (Suggestions/Comments)

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| Approved dashboards and notification functionalities. |
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**Next Meeting Plan:**

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| Implement customer reviews module. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Developed customer reviews module. |
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**Supervisor:** (Suggestions/Comments)

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| Suggested improvements in data management and filtering. |
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**Next Meeting Plan:**

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| Refine customer reviews module. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Refined customer reviews module, implemented efficient data filtering and sorting options. |
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**Supervisor:** (Suggestions/Comments)

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| Approved refined review module, suggested beginning work on company listing features. |
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**Next Meeting Plan:**

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| Begin development of company listings module. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Developed initial company listing functionality allowing builders to showcase portfolios and |
| ratings. |
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**Supervisor:** (Suggestions/Comments)

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| Recommended implementing a robust rating validation system. |
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**Next Meeting Plan:**

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| Implement rating validation and moderation tools. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Implemented rating validation, moderation tools, and verification processes for builder listings. |
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**Supervisor:** (Suggestions/Comments)

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| Reviewed the system, suggested adding a feature for verifying builder credentials. |
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**Next Meeting Plan:**

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| Develop the Verified Builders Status feature. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Completed development of Verified Builders Status feature, enabling verified credentials |
| visibility. Initiated comprehensive unit and integration testing phases. |
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**Supervisor:** (Suggestions/Comments)

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| Approved feature, advised extensive testing, especially security-focused testing. |
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**Next Meeting Plan:**

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| Conduct comprehensive testing, focusing particularly on security aspects and integration |
| stability. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Prepared for mid-defense presentation, showcased completed modules. |
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**Supervisor:** (Suggestions/Comments)

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| Provided feedback for defense, recommended final integrations. |
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**Next Meeting Plan:**

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| Conduct final integrations and begin comprehensive bug fixing. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Completed final integration and initial bug fixing. |
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**Supervisor:** (Suggestions/Comments)

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| Recommended extensive testing and documentation review. |
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**Next Meeting Plan:**

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| Perform final testing and documentation review. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Conducted final testing, resolved identified bugs, reviewed documentation. |
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**Supervisor:** (Suggestions/Comments)

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| Approved final test results, suggested preparation for final defense. |
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**Next Meeting Plan:**

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| Prepare for final presentation. |
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**Student:** (Meeting minutes/Achievements/Activities)

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| Prepared final presentation, reviewed all documentation, finalized project. |
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**Supervisor:** (Suggestions/Comments)

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| Approved project and provided final remarks for presentation. |
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**Next Meeting Plan:**

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| Conduct final project defense and submission. |
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