**DMS: PastPort**

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#### **Authors**

|  |  |  |
| --- | --- | --- |
| Name | Role | Class |
| Dariya Yordanova Kartalova | Scrum Trainer & Q&A | 10 G |
| Mitko Milenov Doychev | Frontend Developer | 10 B |
| Stefan Stefanov Dimitrov | Backend Developer | 10 B |

#### **Resume**

**- Purpose**  
Develop a console-based application to log, sort, and search historical events using linked lists in C++.

**- Needs Analysis**

Users need to track events with dates, titles, and metadata.

Existing solutions lack sorting/search flexibility.

**- Main Stages & Roles**

|  |  |  |
| --- | --- | --- |
| Stage | Activities | Roles |
| 1. Planning | Define requirements, design UML | Scrum Master, Team |
| 2. Backend Setup | Implement Event/EventList classes | Backend Developers |
| 3. Frontend Setup | Build console UI (Menu class) | Frontend Developers |
| 4. Testing | Unit tests, edge cases | QA/Team |
| 5. Documentation | Write README.md, code comments | Technical Writer |

**- Technologies/Tools:**

C++: Optimal for memory management.

Visual Studio: Debugging.

Git/GitHub: Version control.

### **3. Conclusion**

**-** **Main Result**

Successfully developed a console-based historical events manager in C++ using:

* Linked lists for efficient date sorting .
* Modular design.

**-** **Applications**

* **Education**: Teachers tracking historical timelines.
* **Research**: Cataloging events for analysis.
* **Personal Use**: Diary/anniversary logging.

**-** **Future Improvements**

|  |  |
| --- | --- |
| **Area** | **Opportunities** |
| **Features** | Tags, event categories, undo/redo. |
| **UI** | GUI (Qt), pagination, advanced search filters. |
| **Performance** | Binary search for faster lookups. |
| **Collaboration** | Multi-user editing via cloud sync. |