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| **ID** | **Epic** | **User Story** | **Priority** | **Sub-Tasks** |
| US1 | User Authentication | As a user, I want to log in securely so that I can access the system. | Must | - Design login UI  - Implement password validation in C++  - Integrate with MySQL user table |
| US2 | Population Search by Region | As a user, I want to search population data by region to filter the results. | Must | - Create region filter input  - Build MySQL query logic  - Display results in C++ UI |
| US3 | Demographic Data View | As an analyst, I want to view demographics so I can analyze population makeup. | Should | - Define demographic data structure  - Fetch data from MySQL  - Display in chart/table |
| US4 | Generate Growth Report | As an analyst, I want to generate population growth reports by year. | Must | - Query historical data  - Process growth calculation in C++  - Format report |
| US5 | Data Export | As a user, I want to export population data to a CSV file. | Should | - Create export button- Implement CSV writer in C++  - Handle file saving confirmation |
| US6 | Admin Record Update | As an admin, I want to update population entries to keep data accurate. | Could | - Create admin interface  - Implement edit and save logic  - Update MySQL records safely |