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| **Jira Ticket** | **User Story** | **Acceptance Criteria** | **Story Points** |
| T12ACHOCOL-2 | User can log in | - A login form is displayed (e.g., /login).  - Valid credentials grant access to the dashboard.  - Invalid credentials show an error message.  - Session persists until user logs out. | 3 |
| T12ACHOCOL-1 | User can see homepage of app | - A homepage is accessible at / or via main navigation.  - Page loads within 2 seconds in dev environment.  - Brief description of ESG categories is shown.  - Links to deeper pages or login form are visible. | 2 |
| T12ACHOCOL-3 | User can view description of data metrics in dataset | - A “Metrics” page lists each ESG metric (e.g., 100+ from Clarity AI data).  - Metrics are grouped by Environmental, Social, or Governance categories.  - A quick search bar filters the metric list by keyword (e.g., “carbon”). | 3 |
| T12ACHOCOL-4 | User can explore basic stats of the data | - Selecting metric shows mean, median, and standard deviation.  - Basic chart or table displays these statistics.  - Stats refresh when user picks a different metric or year.  - Missing data shows as “N/A.” | 5 |
| T12ACHOCOL-29 | User can select an industry or specific company | - Dropdown or search box to pick an industry or a single company.  - The rest of the dashboard updates accordingly.  - “No data” message appears if no results. - Changes happen in under 3 seconds. | 3 |
| T12ACHOCOL-34 | User can view and select metrics from each category | - A checkbox/multi-select interface for Environmental, Social, Governance metrics.  - The dashboard only plots selected metrics.  -Multiple categories can be combined (e.g., E+S).  - Selections persist when navigating. | 3 |
| T12ACHOCOL-39 | User can explore time series trends | - Line or bar charts display metric values from 2016 to 2024 (if available).  - A year-range slider or dropdown is provided.  - Missing years are labeled “N/A.”  - Charts auto-update upon user selection of metric/year. | 5 |

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| Jira Ticket | User Story | Acceptance Criteria | Story Points |
| T12ACHOCOL-44 | |  | | --- | | User can incorporate industry matched data into EDA |  |  | | --- | |  | | - A script or pipeline merges new industry-classification data with existing ESG data.  - “Matched” vs. “unmatched” records are clearly indicated.  - A quick summary/log is shown (e.g., # matched). | 4 |
| T12ACHOCOL-49 | User can view an aggregated ESG metric for each of the six categories | - A formula or weighting approach combines sub-metrics into a single “aggregated” metric per category (e.g., “EnvRiskScore”).  - The UI displays how each aggregated metric is derived.  - Missing sub-metrics are handled gracefully. | 5 |
| T12ACHOCOL-50 | User can select a model and click “Calculate” to compute each category’s aggregate metric | - A “Calculate” button triggers the selected model/weighting method on the back end.  - Results for the 6 aggregated metrics appear in under 3 seconds.  - If data is incomplete, a warning or partial result is displayed. | 3 |
| T12ACHOCOL-59 | User can run ontology enhanced PCA and compare with standard PCA | - An “Ontology PCA” pipeline uses ESG ontology weights or relationships.  - A second “Standard PCA” runs without these weights.  - Side-by-side results: explained variance, principal components, scree plots.  - Differences highlighted. | 8 |
| T12ACHOCOL-60 | User can perform standard PCA on aggregated ESG category metrics | - The system automatically standardizes the aggregated metrics before PCA.  - Displays a scree plot of variance explained by each principal component.  - Provides a table or biplot to show each category’s contribution. | 5 |

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| Jira Ticket | User Story | Acceptance Criteria | Story Points |
| T12ACHOCOL-69 | |  | | --- | | User can extend coverage to additional industries |  |  | | --- | |  | | - Additional industry CSV files can be added.  - Script automatically applies the same matching logic as before.  - New industries appear in the dropdown.  - Quick EDA confirms correct matching. | 3 |
| T12ACHOCOL-74 | User can detect anomalies or outliers in ESG data | - Post-PCA reconstruction error or distance-based approach flags outliers.  - UI highlights them in red or a dedicated “Anomalies” list. -Clicking an outlier reveals possible reasons (extreme values, missing data). | 5 |
| T12ACHOCOL-79 | User can interact with a final integrated dashboard | - EDA, aggregated metrics, PCA (standard & ontology), and anomalies all integrated into one dashboard.  - Navigation is intuitive (tabs or side menu).  - Minimal reload times, tested in Chrome/Firefox. | 8 |
| T12ACHOCOL-83 | Wrap Up and Documentation | - A final README or user guide explaining each feature and how to extend the system.  - Code is pushed to version control with tags.  - Short demo script for final presentation.  - Basic instructions for deployment are provided. | 3 |