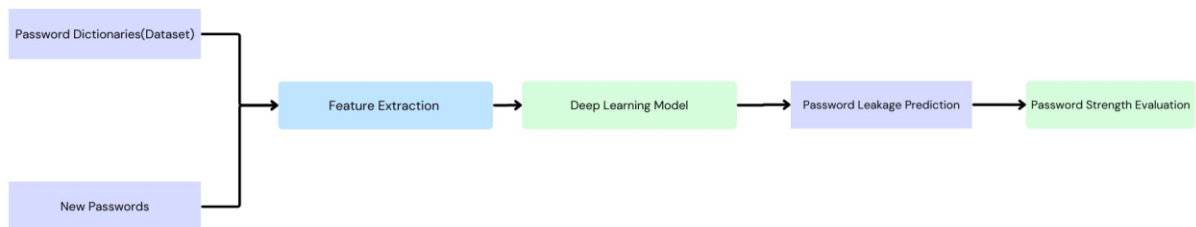


Project Design Phase-II

Data Flow Diagram & User Stories

Date	19 September 2022
Team ID	8.2
Project Name	Password strength classifier
Maximum Marks	4 Marks



The diagram shows the steps involved in training and deploying the password leakage prediction model described in the paragraph. It starts with password dictionaries used to extract feature representations of the passwords. These password features are fed into a deep learning model that is trained to predict password leakage. The trained model can then be deployed to evaluate both the potential for leakage and overall security strength of new passwords based on their features. A key aspect is that the model runs locally on devices without needing external queries. This allows password evaluation to be performed efficiently even on low-powered IoT devices. The modular flow from passwords to feature extraction to model training and finally password scoring enables the development and

deployment of an on-device password security assessment tool using deep learning.