

# Software Development Project

## Goal

- proper git flow
- proper project management
- design the solution yourselves

## The Problem:

- HR wants to automate exporting internal jobs to other job portals
- Jobs should initially be created on <https://jobs.dell.com>
- Should be able to automatically sync to external sites:
  - Job Street
  - LinkedIn
  - Jobs DB
- Any updates will be in sync, e.g. updating and deleting

## Project Planning

- use [Pivotal Tracker](#)
- write a list of all the features you will need
- write a doc about what technologies you will use and why you use it

## Sample: Pomodoro App

- A pomodoro is a block of time (usually 30 mins) where you assign yourself to fully focus on a task
- At the end of the pomodoro should take a 5 min break
- app allows you to:
  - start new pomodoro
  - end it before default end time
  - view previous pomodoros (daily and weekly)

# Sample: Pomodoro App

- Frontend
  - **Purpose**
    - show create pomodoro form
    - show current timer, end button
    - show daily view, show tasks worked
    - show weekly view, chart of pomodoro times across the week
  - **Tech:** Angular, ng2-charts
  - **Deployment:** Netlify

# Sample: Pomodoro App

- Backend
  - **Purpose**
    - store pomodoro data
  - **Tech:** Spring, Hibernate, Postgresql
  - **Deployment:** Cloud Foundry
- Scripting:
  - **Purpose**
    - import pomodoro data from a CSV
    - export pomodoro data to a CSV
  - **Tech:** Python, SQLAlchemy
  - **Deployment:** None

# User Stories

- each story should follow the `user does something` format
- discuss with your group members, how many points to assign to a task
- if more than 3 points, split into new card
- attach any diagrams/wireframes to the cards



# Shared Tasks

- need to be discussed among the entire team (regardless of front/backend)
  - i. UX Flow and Wireframes
    - E.g. [draw.io](#), Photoshop, Illustrator
  - ii. DB structure
    - [dbdiagram.io](#)
  - iii. API endpoints
    - Swagger, Postman, [stoplight.io](#), [apiary.io](#)
- for now, keep all documentation in pivotal and [stoplight.io](#)

# Git Flow

- create a repository (possibly multiple)
- add collaborators
- create a `develop` branch
- all branches should be merged to `develop`
- branches should be prepended with `feature`, `hotfix`, `release`, etc.
  - e.g. `feature/11-user-login`
- **Pivotal Specific:** include the pivotal story ID in the branch name
  - e.g. ID is 11, hence `feature/11-user-login`

## Release flow

- a release contains a set of completed features
- create a `release/<version-number>` branch
- no new features can be added after this
- only fixes are allowed on the release branch
- merge `release/<version-number>` into master when all ready

## Exercise

- Write documentation on what kinds of integration you will need for each external job listings site
- documentation should be in API format
- the endpoints you need most likely do not exist, the purpose of documenting this is to send to them and request for these endpoints