# Stage 8 Task

HNG Internship 11

*Our goals in this stage:*

*- Release the HNG Boilerplates product*

*- Release the internally, fully working MVPs of all core products*

## Assignments

**Product Managers:**

* **Core Products**: PMs will test the product (BY THEMSELVES, NOT WITH TESTERS), and create 1 point tickets for all outstanding issues. The issues could be bugs, ux fixes, or enhancements. All tickets must be approved by mentors. The tickets may only be in the official linear boards for the products. The board will be organized so the tickets are in one of the states: pre-approval, ready for dev, in progress, ready for review, accepted, rejected. A 1 point ticket should take an average dev less than 1 hour to implement. Each PM must have at least 15 accepted and delivered tickets. All tickets will have videos showing the issue, and screenshots of the expectation. Check if the MVP scope needs to be adjusted.
* **Boilerplates**: All old tickets for the boilerplates on GitHub will be closed. PMs will test the deployed version of the boilerplate on the team they are in. They will create new GitHub issues describing very well what needs to be done, either as bug, an enhancement or a feature. There must be a video showing the issue. Each PM should have at least 10 bug tickets that are not a duplicate of any other ticket (on the same repo). Each PM should also have 5 enhancements tickets. No new features should be spec'd out that we did not previously agree to in the score.
* **HNG.tech Boilerplate Landing Page**: The PMs will get together as group and spec out the HNG.tech boilerplate site. You will work with your designated designer to design the page, including the content pages (based on the keywords) . You will work with frontend devs to build the site on the current codebase. You will work with data analysts to create 50 pages per boilerplate. The design of this must be done PROPERLY, no ad-hoc work. Work with video marketers to have a homepage video per boilerplate, videos with tutorials (at least 20 per boilerplate), a comparison video, and 3 deep marketing videos.

You must understand where to get the design, where to get the codebase, etc. DO NOT START ANYTHING FROM SCRATCH. An inability to integrate into an existing project will be penalized. Schedule meetings where meetings are needed, before the end of day 19.08.2024. There should be clear CTAs leading to hiring people.

**Video Marketers:**

Video Marketers should pick from the following list:

- Homepage video for the core product (one per product)

- Homepage video for each boilerplate

- A video tutorial for a feature of the boilerplate (20 videos per boilerplate) .Provide Templates, and show others how to do it.

- A comparison video for the boilerplate

- A How does it Work video for the core product or boilerplate

- 3 very strong marketing videos for the boilerplate (over the top)

- An advert video for HNG Premium

- Testimonial videos for HNG Premium

Take your assignment from PMs. Pick any 15 videos to do. You can do more. Most of the videos will just be duplicated tutorial videos.

**Data Analysts:**

Data analysts will be doing 3 tasks in this stage:

* Task 1: After holding clarification meetings, prepare 25 pieces of content per boilerplate (as a team), and 25 pieces of content for the main projects based on the discussed and approved keywords.
* Task 2: Based on population trends, retirement age, graph out the doctor deficit in Germany over the next 20 years. Calculate what it would mean for Africa.
* Task 3: Prepare a data model for HNG Hire, implement it in MySQL, and then using ChatGPT, build a dashboard that shows hiring statistics. Show available people per stack, those in interviews, those that are hired, etc. Think through all things that should be tracked for the model. Write some useful filters on the data.

Keywords for Content (for Stage 9):

* Video Tools
  + **Image to Video** (intent: People want to turn their photos into a video, with potentially adding a soundtrack)
    - Direct Keywords:
      * Homepage:
        + make video from photos
        + make a photo a video
        + convert picture to video
        + how do you make pictures into a video
        + turn pics into video
        + making pictures into a video
      * Guides and Tutorials
        + How do I make multiple pictures into a single video?
        + How do I add sound to my photos video?
      * Comparison
        + Which is better: x or our tool
  + **Image to Video A**I: (intent: people want to upload a photo and get a talking head ai video out of that)
    - Direct Keywords:
      * Homepage:
        + image to video ai
        + picture to video ai
      * Guides and Tutorials
* **Telex**:
  + Main Page: Telex is like Slack, but for receiving (notifications, events, errors) from your (infrastructure, databases, app events, errors, servers)
  + Categories: Targets (Servers, Apps, Databases, Infrastructure, cloud) and types of events (Errors, Performance, Sales, User Activity, Downtime etc)
  + Direct On Page
    - Homepage (see above)
    - Various focused Categories
      * Database: Monitor Errors on your Database, Monitor Performance on your Database etc
      * Servers: Catch Errors on your servers, Monitor Server Downtime, etc
      * Apps: Monitor App Errors, Monitor App performance, etc
    - Direct Guides and Tutorials on how to use the tool for various use cases
    - Case Studies focused on CTO level people
  + Indirect Traffic
    - How to: Various DevOps activities
    - Comparison: Compare tools for monitoring downtime, etc
* **Telex Boilerplate**
  + C# and Golang Boilerplate
  + Main Website:
    - Include keywords SaaS boilerplate, each of the sub-boilerplate primary keyword, starter kit, website template
  + Categories:
    - **Direct On Page:** 
      * Homepage:
        + Golang Boilerplate / C# Boilerplate
        + Golang SaaS boilerplate
        + Go Boilerplate
        + Golang Template
        + Golang Starter Project
      * Articles with direct help
        + Save Time and Money with Boilerplate Articles

How to speed up development with a golang boilerplate

* + - * + Comparison articles

The best golang boilerplates

Comparing boilerplate to 3rd party tools that do the same

* + - * + Achieving a particular goal

How to setup Authentication with the golang boiler

App deployment

How to setup (each feature) with the HNG golang boilerplate

Integrating x (from boilerplate) with y 3rd party app

Each peculiar hard problem the boilerplate solves, an articl on how to do it - e.g file management, superadmin, setup stripe, email sending, so on

Taking an app to production

* + - * + Issues faced with boilerplate

Debugging some specific error

* + - **Indirect** 
      * Achieving a particular goal, but without the boilerplate
        + Same as above, but link the boilerplate as an alternative
        + Authentication
        + Email Template setup
        + Database setup
        + Etc
      * Using 3rd party tools to achieve a goal guide
        + E.g Auth0
        + Google Analytics
        + Google Cloud, etc
      * Common Errors and their solutions
        + Can AI be used for this?
      * Long form
        + Architectural decisions

Project Setup Standard

ORMs

Infrastructure with the Stack

**Mobile Devs:**

* Release your boilerplate to the apple and android app store
* Fix any open bugs in the mobile boilerplate
* Release it as an open source project on HNG repo
* Add the hiring CTA
* (to be clarified fully)

**Backend:**

* Deliver 20 ticket points
* Deliver a fully working core part of the app

**Frontend:**

* Deliver 20 ticket points
* Deliver a fully working core part of the app

**DevOps:**

* Get your app stable
* Migrate all core projects to the new server we provide
* Migrate AIVideo to AWS spot or any other method we decide

**Testing:**

* Setup a status.domain.com for all core products.
* This status page should show results of automated tests on the site run every 15 minutes. Frontend and backend tests

**Design**:

* Design a social media app called Letters. Each persons page is a set of beautiful Letters. Long form, like Blog Posts, but with Photos. AI assisted writing. Letters must always be addressed to some. Letters can have letter replies.
* Pick 3 pages of each core project and improve the design. If required, you can make major adjustments on the app styles. Ensure that your fixes are added as tickets for the frontend devs. Test on the main app also.