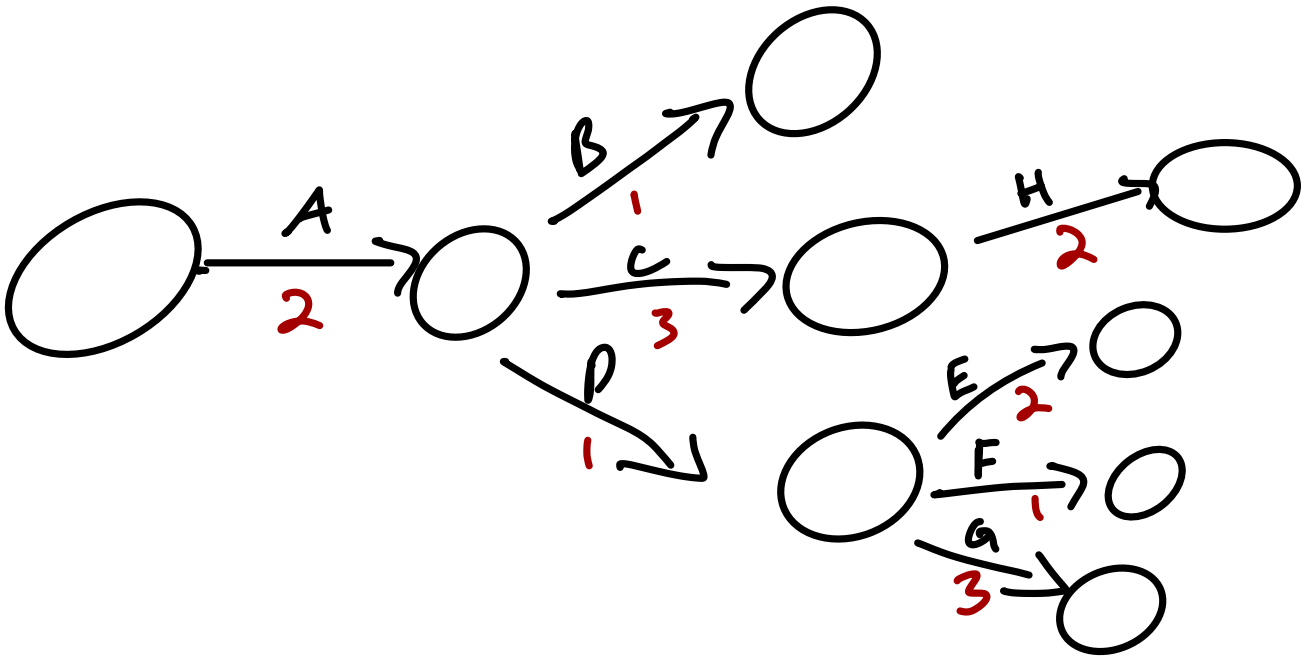
Activity	Predecessor	Duration (days)
<KAN-169> : A		**2**
<KAN-87> : B	**KAN 169**	**1**
<KAN-23> : C	**KAN 169**	**3**
<KAN-55> : D	**KAN 169**	**1**
<KAN-161> : E	**KAN 55**	**2**
<KAN-167> : F	**KAN 55**	**1**
<KAN-168> : G	**KAN 55**	**3**
<KAN-35> : H	**KAN 23**	**2**

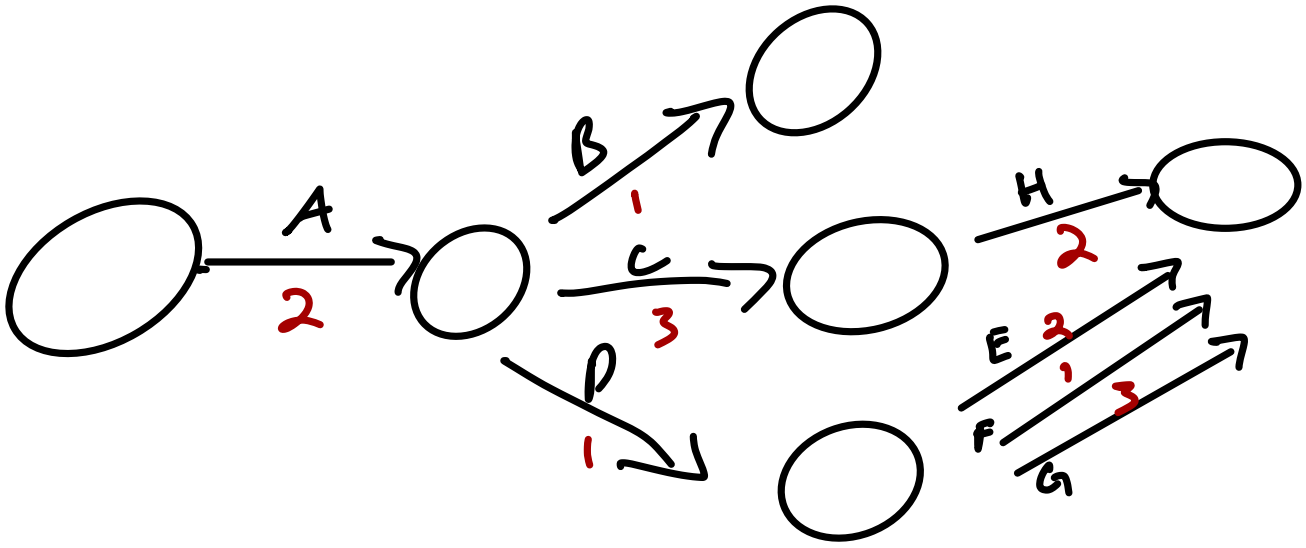
Explanation:

- **<KAN-169> (Chinmay)**: Setting up the server might involve configuring environments and integrating APIs, took 2 days.
- **<KAN-87> (Chinmay)**: Incorporating building locations on the home screen could involve UI/UX design and backend integration, took 1 day.
- **<KAN-23> (Damian)**: Server-side account management includes database setup and authentication systems, took 3 days.
- **<KAN-55> (Ashwin)**: Setting up Postman for backend testing involves configuring requests and validating responses, took 1 day.
- **<KAN-161> (Ashwin)**: Setting up course models may require database schema design and integration with backend services, took 2 days.
- **<KAN-167> (Ashwin)**: Setting up handlers for course models involves coding and testing API endpoints, took 1 day.
- **<KAN-168> (Ashwin)**: Setting up Postman for backend features testing is took 3 day.
- **<KAN-35> (Brandan)**: Implementing map functionality and study hotspot locations includes UI/UX design and integration with location services, took 2 days.

Here is the resulting network graph:



Here is the modified graph and the critical PATH (reduced nodes)



A → B ⇒ 2+1 = 3

A → C → H ⇒ 2+3+2 = 7

A → D → E ⇒ 2+1+2 = 5

A → D → F ⇒ 2+1+1 = 4

A → D → G ⇒ 2+1+3 = 7

Critical paths: A → C → H and

A → D → G

From our findings we decided to split into 3 groups. Two people working on the bottom half; one person in the middle and one person on the top end of our network graph. The person working on the top half joined the person in the middle once they completed their task as ACH was also a critical path. This sprint was difficult as we had two critical paths, for future sprints we will split up user stories and tickets more effectively